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Baltimore. Mayor.

REPORTS

OF THE

CITY OFFICERS AND DEPARTMENTS

MADE TO THE

CITY COUNCIL OF BALTIMORE

FOR THE YEAR 1903.

BALTIMORE:
WM. J. C. DULANY CO
PUBLIC PRINTERS

1904.

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City Register.
Commissioners of Finance.
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Board of School Commissioners.
Superintendent of Lamps and Lighting.
Visitors to City Jail.
Supervisors of City Charities.
Water Department.
Inspector of Buildings.
Harbor Board.
Commissioner of Street Cleaning.
Public Bath Commission.
Collector of Water Rents and Licenses.
Superintendent Public Buildings.
City Librarian.
Commissioners for Opening Streets.
City Engineer.
Health Department.
City Solicitor.

267357

ANNUAL REPORT

—OF THE—

Register of the City

—AND OF THE—

Commissioners of Finance

—TO THE—

Members of the First and Second Branches of the City Council of Baltimore,

—FOR THE—

Fiscal Year Ending December 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY
CITY PRINTERS.

1904.

REPORT OF

HARRY F. HOOPER,

REGISTER OF THE CITY.

REGISTER'S DEPARTMENT.

Register:
HARRY F. HOOPER.

Deputy Register:
J. SEWELL THOMAS.

Chief Clerk:
ISAAC L. NEWMAN,

Stock Clerk:
EDWARD BRADY.

Assistant Clerks:
WM. T. JONES. PAUL NEEDING.

REGISTER'S REPORT

BALTIMORE, December 31, 1903.

To the Honorable the Members of the
First and Second Branches of the City Council—

GENTLEMEN: Complying with the provisions of the Baltimore City Code of 1893 (Article 11, Section 24), I have the honor to lay before you the following report:

The receipts into the Treasury from all sources during the current fiscal year, ending December 31, 1903, as detailed in Statement "C" of this report, were.....	$9,597,161 58
To which add the cash balance of December 31, 1902.....	644,041 72
Making the total amount to be accounted for.....	$10,241,203 30
The total disbursements for the year, as detailed in Statement "C," were.....	9,868,104 18
Leaving a cash balance on hand December 31, 1903, of.....	$373,099 12

THE FOLLOWING STATEMENT IS SUBMITTED TO SHOW THE INCOME

RECEIPTS.

Balance December 31, 1902 (exclusive of funded debt account)		$ 469,654 81
Taxation—		
Tax on general property	$4,939,515 50	
" " securities	249,724 38	
" " income from mortgages	17,752 75	
" " suburban property	88,861 14	
Tax in arrears (City)	878,962 33	
" " arrears (Annex)	23,852 51	
Interest on tax in arrears	73,892 26	
		6,272,550 87
Licenses—		
Liquor	$445,594 70	
Dog	17,389 68	
General	64,143 41	
		527,127 79
Franchises—		
Park tax	$351,864 53	
Electrical subways	34,076 19	
Minor privileges	28,568 39	
		414,509 11
Special Assessments—		
Street opening, assessment of benefits	$22,825 41	
Street paving, assessments	8,886 16	
		31,711 57
Fees	$11,447 54	
Fines	5,227 45	
		16,674 99
Quasi-private Receipts—		
Wharves		44,247 51
Markets		61,018 13
Water rents		871,500 96
City's share of school tax from State		281,937 63
Free text books, tax from State		53,605 36
Tuition fees from non-resident pupils		4,810 41
Interest on deposits (daily balances)		40,092 34
Board from insane patients at hospitals		11,554 55
Health Department		15,378 06
City Engineer's Department		34,310 88
Bayview Asylum		1,059 19
Street Cleaning Department		960 10
General Superintendent of Lamps Department		2,764 26
Baltimore City Jail		7,688 10
Fire Department		2,325 22
Topographical Survey		101 25
Free Baths		5,981 55
Supervisors of Elections		6,580 00
Harbor Board		296 00
Opening streets		1,961 09
Rent of city property		3,498 07
State tax on city loans (from holders)		886 72
Judgments and suits		493 06
Removed cases		805 94
Turnpike dividends		114 30
Tax sales (net)		916 00
Miscellaneous		1,902 23
Paving streets		1,539 02
		$9,190,557 07

AND EXPENSES OF THE CITY GOVERNMENT FOR THE YEAR 1903.

EXPENDITURES.

Street paving and repairs		$ 297,903 28
Sewers		29,709 14
Bridges		44,761 94
Private paving and inspection		31 042 01
Improvements and addition to drainage system		7,220 37
Paving certificates		485 51
Interest on paving certificates		63 46
Opening streets (damages)		17,268 07
Paving streets (account assessment)		10,449 32
Cleaning streets		382,781 54
Police		1,010,738 41
Lighting		359,314 20
Fire protection		509,861 48
Water supply		859,149 63
Health		96,708 67
Markets		4,788 17
Wharves		9,386 27
Harbor		77,478 68
Courts		183,760 89
Elections and registration		160,820 83
Schools		1,359,258 59
Charities and corrections		467,803 45
Free baths		16,770 94
Parks and squares		347,938 35
Municipal buildings (including repairs)		688,137 97
Administration		298,521 20
Interest on funded debt (net)		931,883 11
State tax on city loans		22,514 41
Ground rents on city property		51,000 69
Advertising laws		1,996 84
Enoch Pratt Free Library (deficiency in income)		4,258 00
Sinking funds		505,182 22
Care of public buildings		83,282 94
Topograpical survey		5,861 51
Dog licenses and fines		8,211 20
Maryland Institute		9,000 00
Insurance on city property		265 00
Hose for various markets		678 96
Telephone and municipal exchange		4,671 37
Judgments and suits		12,572 72
Mural decorations (new Court-house)		3,300 00
Miscellaneous		1,329 95
Operating and maintenance of completed conduits		7,421 28
Refund 1900 taxes in Annex	13,505 54	
Surplus of Mayor and City Council 1902	12,511 14	
Cash balance (exclusive of funded debt account) December 31, 1903	248,987 82	
		275,004 50

$9,190.557 07

FUNDED DEBT ACCOUNT.

Balance to credit of loans December 31, 1902	$174,386 91	
Net proceeds of sale of stock in 1903	115,000 00	$289,386 91
Net expenditures against loans as shown by statement "C"		165,275 61
Unexpended balance Dec. 31. 1903..		$124,111 30

FUNDED DEBT.

The funded debt December 31, 1903, is	$39,964,482 95	
The funded debt December 31, 1902, was	39,850,182 95	
Showing the increase to have been		$114,300 00
Which is thus explained:		
Issue of Water 3½ Per Cent. 1943 Loan	$35,000 00	
Issue of Conduit 3½ Per Cent. 1928 Loan	80,000 00	$115,000 00
Less:		
Redemption of City Hall 6 Per Cent. 1902 Loan		700 00
		$114,300 00
Increase of funded debt authorized, but not yet issued:		
Four Million 3½ Per Cent. 1945 Loan, Ordinance No. 37, 1894	$107,500 00	
Water 3½ Per Cent. 1943 Loan, Ordinance No. 86, 1902	965,000 00	
Conduit 3½ Per Cent. 1928 Loan, Ordinance No. 87, 1902	920,000 00	$1,992,500 00

During the year the Sinking Funds for the redemption of the public debt have been maintained according to law, and the amount of $935,590.10 has been added to their value.

I respectfully call your attention to the condition of the same, as detailed in Statement No. 3 of the Finance Commissioners' report.

On account of ample provision being made by a tax levy for the maintenance of the Sinking Funds, that part of the Charter requiring "the surplus arising in any fiscal year, by reason of an excess of income received from the estimated revenue over the expenditures for such year, the said surplus shall be passed to the Commissioners of Finance to be credited to the General Sinking Fund," should be repealed, and the surplus, if any, of each year be passed to the credit of the succeeding year's tax levy.

The statements herewith submitted for your information are as follows:

"A." A statement of the funded debt and of the productive and unproductive assets of the city.

"B." A statement of the surplus existing December 31, 1903.

"C." A statement in detail of the receipts and expenditures for the fiscal year, with the appropriations for the various accounts.

"D." A statement showing the condition of the fund held by the City Register, in trust, for property sold for taxes.

Respectfully submitted,

HARRY F. HOOPER,

Register of the City of Baltimore.

STATEMENTS.

STATEMENT A—FUNDED DEBT.

December 31, 1903.

Name of Loan.	Rate.	Authority for Issue.	When Redeemable.	Amount.
Harford Run....	4 perct.	Ord. 115, 1884.	Nov. 3, 1904.	$ 350,000 00
Water	5 "	" 65, 1877.	July 1, 1916.	5,000,000 00
Funding.....	5 "	" 93, 1878.	July 1, 1916.	1,000,000 00
McDonogh Ext.	5 "	" 157, 1890.	Sept. 1, 1916.	280,000 00
Harford Run.....	4 "	" 86, 1879.	Jan. 1, 1920.	250,000 00
Patterson Park Extended	4 "	" 120, 1883.	Oct. 1, 1920.	200,000 00
Paving.....	4 "	" 140, 1880.	Nov. 1, 1920.	500,000 00
Water.....	4 "	" 91, 1882.	Nov. 1 1922.	500,000 00
Conduit	3½ "	" 120, 1896.	Jan. 1, 1922.	1,000,000 00
W. M. R. R.....	4 "	" 71, 1882.	July 1, 1925.	684,000 00
Water.....	4 "	" 82, 1886.	Nov. 1, 1926.	1,000,000 00
W. M. R. R.....	3¼ "	" 11, 1886.	Jan. 1, 1927.	1,704,000 00
Conduit.....	3½ "	" 87, 1902.	Jan. 1, 1928.	80,000 00
Internal Improvement.....	3½ "	" 98, 1888.	July 1, 1928.	4,850,000 00
Consolidated.....	3½ "	" 58, 1890.	July 1, 1930.	5,000,000 00
Funding.....	3½ "	" 112, 1896.	July 1, 1936.	1,453,300 00
Public Improv't	3½ "	" 100, 1892.	Jan. 1, 1940.	6,000,000 00
Refunding	3½ "	" 32½, 1898.	Jan. 1, 1940.	4,300,000 00
Water.....	3½ "	" 86, 1902.	Jan. 1, 1943.	35,000 00
Four Million.....	3½ "	" 137, 1894.	Mar. 1, 1945.	3,892,500 00
W. M. R. R. Rfg.	3½ "	" { 18, 1898. " { 32, 1900.	Mar. 1, 1950.	875,000 00
W. M. R. R. Rfg.	3½ "	" { 18, 1898. " { 32, 1900.	Jan. 1, 1952.	1,000,000 00
Stock due in 1860.....	6 "	Unredeemed, no int. allowed.		482 00
Water Stock due n 1875.....	6 "	Unredeemed, no int. allowed.		270 00
Consolidated Stock due in 1890.....	6 "	Unredeemed, no int. allowed.		627 50
Five Million Stock due in 1890.....	6 "	Unredeemed, no int. allowed.		2,003 45
Water Stock due in 1894.....	5 "	Unredeemed, no int. allowed.		700 00
Jones' Falls Stock due in 1900.....	5 "	Unredeemed, no int. allowed.		400 00
W. M. R. R Stock due in 1902.....	6 "	Unredeemed, no int. allowed.		6,200 00
		Total funded debt.....		$39,964,482 95

Total funded debt			$39,964,482 95

Productive Assets.

Sinking Funds, face value		$18,527,963 48	
Water Works, cost		12,535,000 00	
To pay which the following loans were issued:			
Water 5 Per Cent. 1916 Loan	$ 5,000,000 00		
Water 5 Per Cent. 1894 Loan (redeemed)	4,000,000 00		
Water 4 Per Cent. 1922 Loan	500,000 00		
Water 4 Per Cent. 1926 Loan	1,000,000 00		
Water 3½ Per Cent. 1943 Loan	35,000 00		
Of the Four Million 3½ Per Cent. 1945 Loan for extension of Water Supply.	2,000,000 00		
	$12,535,000 00		
550 Shares of Baltimore and Reisterstown Turnpike Stock		2,062 50	
137 Shares Baltimore and Frederick Turnpike Stock		456 66	
Electrical Subway, cost		1,080,000 00	
			32,145,482 64
Excess of funded debt over productive assets			$7,819,000 31

Unproductive Assets.

10,000 Shares of Valley R.R. Co. of Virginia Stock		.....	
625 Shares Baltimore and York Turnpike Stock		.....	
New Court House, cost		$2,750,000 00	
Market and schoolhouses, City Hall, jail, police stations, almshouse, iceboats, quarantine stations, public parks and squares, valued at		11,500,000 00	
		$14,250,000 00	

Of the total funded debt amounting to....		$39,964,482 95
Interest is provided as follows:		
On Water 5 Per Cent. 1916 Loan, paid from water rents	$5,000,000 00	
On Water 4 Per Cent. 1922 Loan, paid from water rents	500,000 00	
On Water 4 Per Cent. 1926 Loan, paid from water rents	1,000,000 00	
On Water 3½ per Cent. 1943 Loan, paid from water rents	35,000 00	
On Four Million 3½ Per Cent. 1945 Loan, (issued for extension of water supply) paid from water rents	2,000,000 00	
On Patterson Park 4 Per Cent, 1920 Loan, paid from Park Board receipts	200,000 00	
On Four Million 3½ Per Cent. 1945 Loan, (issued for Park purposes), paid from Park Board receipts	892,500 00	
On Western Md. R.R. 3½ Per Cent. 1952 Loan, paid by Commissioners of Finance from special sinking fund	1,000,000 00	
On Western Md. R. R. 4 Per Cent. 1925 Loan, paid by Commissioners of Finance from special sinking fund	684,000 00	
On Western Md. R.R. 3¼ Per Cent. 1927 Loan, paid by Commissioners of Finance from special sinking fund	1,704,000 00	
On Western Md. R.R. 3½ Per Cent. 1950 Loan, paid by Commissioners of Finance from special sinking fund	875,000 00	
Overdue stock, no interest allowed	10,682 95	
		$13,901,182 95
Leaving the amount on which interest is provided for by taxation at		$26,063,300 00

Viz: $1,280,000 00 interest at 5 per cent.
1,100,000 00 interest at 4 per cent.
23,683,000 00 interest at 3½ per cent.

$26,063,000 00

STATEMENT B.

The following statement shows the surplus existing December 31, 1903

Dr.		
Cash balance on deposit	$373,099 12	
Tax sales, property sold and unredeemed	8,148 76	
City car tickets for city employees	189 00	
Removing dangerous walls	1,103 84	
		$382,540 72
Cr.		
Water Board—Water rents for 1904, collected in 1903	$7,743 48	
Improvement of Harford Run—Balance	3,096 89	
Private paving and inspection	2,238 32	
Paving certificates outstanding	8,572 13	
Free text books	34 48	
Intestate estates	1,519 06	
Unclaimed damages for opening streets	117 50	
Building Engine House No. 22, balance carried forward	1,000 00	
Kindergarten supplies, balance carried forward	4,526 23	
Infectious Disease Hospital, balance carried forward	24,808 50	
Park Board, balance carried forward	18,630 27	
Refund 1900 Annex taxes, balance carried forward	14,412 95	
State tax on city loans, balance carried forward	25,974 76	
Paving streets, balance carried forward	697 10	
Opening streets, balance carried forward	16,813 21	
Conduit 1928 Loan, balance carried forward	7,547 94	
Water 1943 Loan, balance carried forward	282 61	
Sundry departmental balances carried forward to pay contracts made in 1903, and liens on the city	105,508 72	
Sundry credit balances, not estimated, to be received in 1903	14,578 42	
Cash balance Four Million 1945 Loan	42,252 34	
Cash balance Internal Improvement 1928 Loan	16,485 60	
Cash balance Public Improvement 1940 Loan	57,542 81	
		$374,383 32
Surplus		$8,157 40

STATEMENT C.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
INSPECTOR OF BUILDINGS.					
Salaries	$24,380 00	$24,374 53			
Repairs of city property, consolidated	133,567 00	133,567 00			
Emptying cesspools	500 00	500 00			
Livery and transportation	900 00	900 00			
Incidentals	500 00	500 00			
Permits, sheds, etc		647 47	$6,798 34		$6,798 34
Sanitary and other improvements to schoolhouses	59,400 00	59,400 00			
Lavatory for women, City Hall	1,000 00	1,000 00			
Building shed on Bowly's Whf	2,034 00	1,439 31			
No. 11 Truck House (Reserved to C. Sheehan & Son)	1,000 00	1,000 00			
Building School No. 54 (addition)	10,000 00	10 861 75			
Building School No. 55	6,769 42	23,594 38			
Building School No. 69	19,872 09	38,069 97			
Building School No. 74	26,029 00	34,756 64			
Building School No. 83	28,063 80	33,748 23			
Building School No. 84	28,957 00	44,249 17			
Building School, Saratoga and Mount streets	50,000 00	45,221 35			
Building No. 7 Truck House	1,020 59	5,040 07			
Building Engine House No. 23	11,000 00	20,222 07			

Building barracks at quarantine	7,195 50	5,050 57			
Lot and building, Engine House No. 24	20,000 00	4,515 47			
Lot and building, Engine House No. 25	30,000 00	26,220 03			
Lot and Building, School No. 10	45,000 00	4,130 95			
Removing dangerous walls		1,157 51	$158 44		$158 44
	$507,188 40	$520,166 47	$6,956 78		$6,956 78
HARBOR BOARD.					
Salaries	$ 5,200 00	$ 5,200 00			
Dredging harbor	49,382 00	49,381 93			
Iceboats, maintenance and repairs	14,680 00	14,970 00	$ 296 00		$296 00
Repairs of wharves	5,000 00	5,464 72			
Removal of floating matter	1,350 00	1,322 16			
Removal of ashes	900 00	681 02			
Incidentals	500 00	480 80			
Iceboat "Annapolis," State appropriation		5,274 05	5,000 00		5,000 00
	$77,012 00	$82,774 68	$5,296 00		$5,296 00
CITY COLLECTOR.					
Salaries	$32,500 00	$32,500 00			
Expenses	2,300 00	2,300 00	$83 86		$83 86
Tax Bailiffs		42,582 62	42,582 62		42,582 62
Refund 1900 Annex Taxes paid in error		13,505 54			
	$34,800 00	$90,888 16	$42,666 48		$42,666 48

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
SUPERINTENDENT OF LAMPS AND LIGHTING.					
Salaries	$ 12,548 00	$ 12,512 67			
Electric Lights	158,548 28	158,510 22			
Gas and maintenance	137,208 45	137,255 77	$2,764 26		$2,764 26
Naphtha lamps and maintenance	28,084 38	25,671 29			
Naphtha lamps and maintenance (special account)		278 47			
Incidentals	300 00	253 43			
Special illumination of Public Buildings, etc.	25,000 00	24,832 35			
	$361,689 11	$359,314 20	$2,764 26		$2,764 26
VISITORS TO BALTIMORE CITY JAIL.					
Salaries	$32,080 00	$31,887 69			
Expenses	22,000 00	22,001 84	$7,688 10		$7,688 10
Addition to hospital		2,538 60			
	$54,080 00	$56,428 13	$7,688 10		$7,688 10

COMMISSIONER OF STREET CLEANING.					
Salaries	$16,200 00	$16,175 82			
Street carts and men	86,366 50	86,348 50			
Sweepers and scrapers	84,376 24	84,361 96			
Cleaning sewers and inlets	11,466 00	11,457 43			
Sweeping machines, sprinklers, etc	25,650 00	25,636 09			
Tools, repairs, etc	2,697 26	2,696 62			
Incidental expenses	1,000 00	909 03			
Printing reports	100 00	64 38			
Garbage collection and disposal (contract)	147,929 95	147,767 95			
Removal of garbage (deficiency in 1902)	7,273 76	7,273 76			
Sale of street dirt			$960 10		$960 10
	$383,059 71	$382,781 54	$960 10		$960 10
CITY REGISTER.					
Salaries	$10,700 00	$10,700 00			
Expenses	450 00	246 18			
State tax on city loans	26,000 00	22,514 41	$886 72		$886 72
Ground rents on city property	51,000 00	51,000 69	3,498 07		3,498 07
Advertising laws	2,000 00	1,996 84			
Enoch Pratt Free Library Fund (deficiency in income)	4,258 00	4,258 00			
Interest on stock debt	1,510,468 00	1,501,018 00	1,487,670 52	$918,535 63	569,134 89
Interest on paving certificates	1,401 96	63 46			
City Seal			10 05		10 05
	$1,606,277 96	$1,591,797 58	$1,492,065 36	$918,535 63	$573,529 73

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
CITY ENGINEER.					
Salaries	$28,680 00	$28,679 82			
Repairs of sewers	24,500 00	23,639 59			
Repairs of sewers (special account)		1,191 97			
Maintenance of bridges and culverts	35,835 00	35,541 58			
Repairs of roads, streets, etc.	181,450 00	181,476 88	$26 88		$26 88
Paving and repaving cross streets	7,500 00	7,500 00			
Paving and repaving cross streets (special account)		323 58			
Livery and transportation	1,200 00	1,200 00			
Footway crossings	6,000 00	5,745 79			
Footway crossings (special account)		8,899			
Maintenance of Light Street Bridge	7,880 00	7,870 36			
Maintenance Block Street Drawbridge	1,350 00	1,350 00			
Maintenance property yard	1,500 00	1,469 30			
Incidentals	500 00	507 50	7 50		7 50
Advertising	1,000 00	$981 27			
Improvements and additions to drainage system	7,000 00	7,051 00	51 00		51 00

Improvements and additions to drainage system (special account)		169 37			
Paving in front of city property	3,000 00	2,249 94			
Paving in front of city property, special account		2,261 85			
Private paving and inspection		31,042 01	32,513 95		32,513 95
Sale of old materials		20 00	1,711 55		1,711 55
Ogier Run sewer and laterals		33 08			
Sumwalt Run sewer	1,400 00	1,400 00			
Sewer for School No. 69	4,251 50	3,444 50			
Pavement for School No. 69	650 00	289 34			
Repairing drain in Lipps Lane	160 00				
Paving certificates		485 51			
	$313,856 50	$346,013 23	$34,310 88		$34,310 88
Law Department.					
Salaries	$11,300 00	$11,104 80			
Expenses	1,500 00	1,496 10			
Stenographer, typewriter and other assistants	2,500 00	2,428 88			
Judgments and suits	12,200 00	12,572 72	$493 06		$493 06
	$27,500 00	$27,602 50	$493 06		$493 06
Electrical Commission.					
Operating and maintenance of completed conduits	$7,486 00	$7,421 28			
	$7,486 00	$7,421 28			

STATEMENT C—Continued.

NAMES OF ACCOUNTS	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
CITY COMPTROLLER.					
Salaries	$12,600 00	$12,600 00			
Expenses	1,200 00	923 88			
Insurance on city property	1,500 00	265 00			
Assistant market masters	6,400 00	6,400 00			
Hose for various markets	800 00	678 96			
City car tickets for city employees		6,251 50	$6,246 75		$6,246 75
Purchase of lot adjoining School No. 53		11,713 41			
Purchase of "Hardesty land"	50,000 00	49,666 97			
Purchase of lots No. 124 and 126 N. High street, for school purposes	5,000 00	5,000 00			
Purchase of lot for English-German School No. 2	2,000 00				
Inspectors of weights and measures		5,286 62	5,286 62		5,286 62
	$79,500 00	$98,786 34	$11,533 37		$11,533 37
TOPOGRAPHICAL SURVEY.					
Salaries	$6,090 00	$5,790 00			
Expenses	180 00	71 51	$101 25		$101 25
	$6,270 00	$5,861 51	101 25		$101 25

BOARD OF SCHOOL COMMISSIONERS.					
Salaries, office	$10,600 00	$10,382 28			
Expenses, office	1,500 00	1,500 00			
Salaries, day schools	1,145,018 00	1,145,015 84	$1,536,332 10	$1,254,394 47	$281,937 63
Expenses, day schools	127,437 50	127,441 13	4,810 41		4,810 41
Expenses, special account		6,534 08			
Salaries night schools	8,524 00	8,498 75			
Expenses, night schools	500 00	497 68			
Free text books		55,150 22	53,605,36		53,605 36
Furnishing new school buildings	38,500 00	26,899 93			
Furnishing two school buildings		15,106 80			
Day schools, salaries, special, Group "M"	4,323 61	4,238 61			
	$1,336,403 11	$1,401,265 32	$1,594,747 87	$1,254,394 47	$340,353 40
BOARD OF POLICE EXAMINERS.					
Salaries	$5,500 00	$5,500 00			
Expenses	682 00	479 85			
	$6,182 00	$5,979 85			
COMMISSIONERS FOR OPENING STREETS.					
Salaries	$6,900 00	$6,895 17			
Expenses	172 00	29 63			
	$7,072 00	$6,924 80			

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
BOARD OF FIRE COMMISSIONERS.					
Salaries	$386,560 00	$386,256 04			
Expenses	114,410 00	114,412 86	$2,325 22		$2,325 22
Equipment and Salaries New Engine Co. No. 25	18,580 00	18,580 00			
Salaries Engine Co. No. 24	5,300 00	4,849 13			
Equipment Engine Co No. 24	15,000 00	15,000 00			
	$539,850 00	$539,098 03	$2,325 22		$2,325 22
BOARD OF PARK COMMISSIONERS.					
Park Board receipts			$351,864 53		$351,864 53
Office salaries	$ 3,024 00	$ 2,946 00			
Office expenses	1,640 00	1,289 23			
Parks and squares, salaries	188,797 44	189,047 35	267 47		267 47
Park and squares, expenses	148,398 79	141,814 71	5 80		5 80
New improvements	9,307 77	9,307 77			
Repairing Green Spring avenue road		3,515 28	2 25		2 25
Electric light plant, Druid Hill Park, maintenance		293 50			
	$351,168 00	$348,213 87	$352,140 05		$352,140 05

COURTS.					
Criminal Court, salaries	$13,500 00	$13,500 00			
Criminal Court, expenses	72,900 00	65,746 99			
Baltimore City Court, salaries	7,000 00	6,250 00			
Baltimore City Court, expenses	15 718 75	12,996 15			
Court of Common Pleas, salaries	8,000 00	8,000 00			
Court of Common Pleas, expenses	13,746 25	10,393 81			
Superior Court, salaries	7,420 00	7,420 00			
Superior Court, expenses	12,767 90	12,267 42			
Circuit Court, salaries	3,900 00	3,900 00			
Circuit Court, expenses	600 00	478 70			
Circuit Court No. 2, salaries	3,900 00	3,900 00			
Circuit Court No 2, expenses	400 00	300 75			
Orphans' Court, salaries	10,016 00	10,052 00	$100 00		$100 00
Orphans' Court, expenses	100 00	86 85			
Supreme Bench, salaries	4,500 00	4,477 76			
Supreme Bench, expenses	630 00	396 05			
Juvenile Court, salaries	3,015 95	3,015 95			
Juvenile Court, expenses	865 00	865 00			
Magistrates	19,850 00	19,813 66			
	$198,829 85	$183,860 89	$100 00		$100 00
FREE PUBLIC BATH COMMISSION.					
Salaries	$8,849 00	$8,714 24			
Expenses	7,175 00	7,172 10	$5,981 55		$5,981 55
Women's out-of-door baths	1,100 00	884 60			
	$17,124 00	$16,770 94	$5,981 55		$5,981 55

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	FACE OF LEDGER.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
WATER BOARD.					
Water Board receipts	.....	$ 923 45	$857,991 52	.....	$857,991 52
Collector of Water Rents and Licences, salaries	$22,600 00	22,596 50	.....	.....	.....
Collector of Water Rents and Licenses, expenses	387,511 00	381,049 51	.....	.....	.....
Water Engineer's Department, salaries	85,730 00	84,157 13	.....	.....	.....
Water Engineer's Department, expenses	362,700 00	357,789 85	28 14	.....	28 14
Meters	.....	12,733 19	5,737 82	.....	5,737 82
New storage house, Gay street yard	9,000 00	27,809 24	.....	.....	.....
Water Board receipts, on account of 1904 rents	.....	.....	7,743 48	.....	7,743 48
	$867,541 00	$887,058 87	$871,500 96	.....	$871,500 96
LIQUOR LICENSE COMMISSION.					
Salaries	$11,000 00	$10,199 95	.....	.....	.....
Expenses	3,919 50	3,919 50	.....	.....	.....
	$14,919 50	$14,119 45	.....	.....	.....

SINKING FUNDS.					
Conduit 1922 Loan	$31,569 85	$31,077 41	$31,077 41	$31,077 41	
Conduit 1928 Loan	27,733 96	26,449 86	26,449 86	26,449 86	
Four Million 1945 Loan	15,784 93	15,538 76	15,538 76	15,538 76	
Funding 1936 Loan	31,569 85	31,077 41	31,077 41	31,077 41	
General Loan	74,868 07	74,841 50	74,841 50	74,841 50	
Internal Improvement 1928 Loan	94,709 57	93,232 39	93,232 39	93,232 39	
Public Improvement 1940 Loan	63,139 71	62,154 84	62,154 84	62,154 84	
Refunding 1940 Loan	63,139 71	62,039 08	62,039 08	62,039 08	
Water 1916 Loan	63,139 71	62,154 80	62,154 80	62,154 80	
Water 1922 Loan	15,784 93	15,538 76	15,538 76	15,538 76	
Water 1926 Loan	31,569 85	31,077 41	31,077 41	31,077 41	
	$513,010 14	$505,182 22	$505,182 22	$505,182 22	
MAYORALTY.					
Salaries	$10,400 00	$10,400 00			
Expenses	3,100 00	3,093 95			
Municipal Statistician, Salaries	1,500 00	1,500 00			
Municipal Statistician, expenses	2 500 00	1,372 25	$1 50		$1 50
	$17,500 00	$16,366 20	$1 50		$1 50
BOARD OF POLICE COMMISSIONERS.					
Salaries	$944,004 00	$937,423 58	$998,226 09	$998,226 09	
Expenses	67,335 00	67,334 98			
	$1,011,339 00	$1,004,758 56	$998,226 09	$998,226 09	

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	FACE OF LEDGER.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
SUPERVISORS OF CITY CHARITIES.					
City offices, salaries	$6,500 00	$6,371 67			
City offices, expenses	1,000 00	822 98			
Bayview Asylum, salaries	24,100 00	23,445 26	67		67
Bayview Asylum, expenses	98,400 00	87,599 32	$1,058 52		$1,058 52
Transportation of poor to their homes	800 00	375 06			12 40
Care of insane	127,000 00	126,948 13			
City patients in hospitals	62,000 00	59,551 00			
Dispensary service	7,850 00	6,912 86			
Temporary care of homeless men	1,000 00	912 40			
Destitute and neglected children	35,000 00	31,324 88			
St. Mary's Industrial School	30,000 00	28,718 20			
House of the Good Shepherd for Colored Girls	2,500 00	2,500 00			
Female House of Refuge	4,000 00	2,270 40			
Female House of Refuge, repairs		996 40			
Maintenance and care of colored youth and children	10,000 00	9,625 35			
House of Refuge, maintenance	14,000 00	12,270 00			
House of Refuge, repairs	3,000 00	2,987 26			

House of Refuge, manual training	6,000 00	6,000 00			
Industrial Home for Colored Girls, maintenance	3,500 00	2,782 75			
Industrial Home for Colored Girls, improvements	1,500 00	1,500 00			
	$438,150 00	$413,913 92	$1,071 59		$1,071 59
SUPERVISORS OF ELECTIONS.					
Salaries	$15,000 00	$14,808 38			
Expenses	4,133 00	3,987 24	$6,580 00		$6,580 00
Registration, spring	16,357 00	15,183 12			
Primary election, spring	19,425 00	19,414 41			
Election, spring	20,675 00	20,504 16			
Registration, fall	55,804 00	55,414 47			
Primary election, fall	20,925 00	20,907 92			
Election, fall	17,879 00	17,181 13			
	$170,198 00	$167,400 83	$6,580 00		$6,580 00
CITY LIBRARIAN.					
Salaries	$3,150 00	$3,087 50			
Expenses	14,774 83	14,737 83	$81 50		$81 50
	$17,924 83	$17,825 33	$81 50		$81 50
COMMISSIONER OF HEALTH.					
Salaries	$57,836 00	$57,760 56			
Expenses	21,992 91	21,992 91	$227 00		$227 00
	$79,828 91	$79,753 47	$227 00		$227 00

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
PAVING STREETS, ETC.					
Baltimore street, east from Grove street, Ordinance 91, 1900		$4,584 47			
Chase street, Ordinance 158, 1903		33 18			
Carey street, Ordinance 63, 1902		821 78	$882 23	$882 23	
Ducatel street, Ordinance 159, 1903		35 58			
Clifton avenue, Ordinance 155, 1903		11 70			
Eutaw Place, North avenue to Whitelock street, Ordinance 70, 1900		14,580 74			
Fayette street, East, Ordinances 27, 1902, and 117, 1903.		1,420 98	1,473 83	1,473 83	
Ashland avenue, Ordinance 21, 1902		6,053 29			
Brunt street, Bloom to Baker street, Ordinance 49, 1902		1,764 96	1,663 57	1,663 57	
Eighth street, Ordinance 151, 1903		11 70			
Fulton avenue (Pennsylvania avenue to Druid Hill avenue).		18,423 84			

Henry street, Ordinance 60, 1902			519 29	519 29	
Hoffman street, Ordinance 105, 1902	706 65	2,021 00	1,314 35	1,314 35	
Stockholm street, Ordinance 103, 1902		38 82			
McCulloh street (Lanvale street to Lafayette avenue)		3,212 87			
Montford avenue, Ordinance 50, 1902		799 20	851 17	851 17	
North avenue, from Pennsylvania avenue 150 feet westward		2,497 92			
Northwest street, Ordinance 80, 1902		38 18			
North avenue from Greenmount avenue to Broadway.		25,315 96	1,539 02		1,539 02
North avenue, Ordinance 123, 1896		9 57			
Rose street		1,331 04	1,407 67	1,407 67	
Warren avenue, from Light street 1380 feet eastward		18,715 69			
Tenth street, Ordinance 149, 1903		11 71			
Twenty-ninth street (grading and kerbing)		2,558 24			
Twelfth street, Ordinance 152, 1903		11 70			
Calvert street (Baltimore to German street), Ordinance 72, 1902		2.997 01	689 10	689 10	
St. Paul street, Ordinance 50, 1900		1,110 18			
	$706 65	$108,411 31	$10,340 23	$8,801 21	$1,539 02

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
OPENING STREETS, ETC.					
Gilmor's lane (closing), Ordinance 146, 1896	.....	.....	$679 32	$679 32	....
Jackson street, Ordinance 7, 1901	.....	$50 00	7,462 05	7,462 05	....
Apple alley (closing), Ordinance 99, 1902	.....	46 29	.....	.....	....
Aiken street, Ordinance 26, 1902	.....	.....	431 32	431 32	....
Viaduct avenue, Ordinance 57, 1902	$4,507 57	2 500 00	753 82	582 50	$171 32
Belt street, Ordinances 60, 1900, and 3, 1901	.....	12,193 79	12,186 72	12,136 72	50 00
Beason street, Ordinance 93, 1885	.....	.....	1,533 50	1,533 50	....
Clarkson alley, Ordinance 112, 1894	.....	35 31	.....	.....	....
Calvert street (Twenty-fifth to Gilmor's lane)	81 63	795 76	... .	.....	....
Ensor street (Eager to Chase street), Ordinance 44, 1892	.....	50 00	1,739 77	.....	1,739 77
East and Chesnut streets, Ordinance 95, 1891	.....	3 75	.....	.....	....
Widening North avenue at Peck's Branch	.....	1,593 17	.....	....	....
	$4,589 20	$17,268 07	$24,786 50	$22,825 41	$1,961 09

SUPERINTENDENT OF PUBLIC BUILDINGS.					
Salaries, City Hall	$14,820 00	$14,807 91			
Expenses City Hall	8,950 00	10,877 94	$68 85		$68 85
Salaries, City Hall Annex	2,250 00	2,250 00			
Expenses, City Hall Annex	4,300 00	4,613 60			
Salaries, Court House	33,565 00	33,552 34			
Expenses, Court House	17,250 00	17,250 00			
	$81,135 00	$83,351 79	$68 85		$68 85
QUARANTINE.					
Salaries	$11,105 00	$11 101 00			
Expenses	5,850 00	5,854 20	$15,151 06		$15,151 06
	$16,955 00	$16,955 20	$15,151 06		$15,151 06
APPEAL TAX COURT.					
Salaries	$23,200 00	$22,815 00			
Expenses	1,675 00	1,675 00			
	$24,875 00	$24,490 00			
CONDUIT 1928 LOAN.					
General account		$7,526 22	$87,526 22		$87,526 22
Electrical Commission—Construction	$189,000 00	57,258 30	692 35		692 35
Electrical Commission—Salaries	16,170 00	15,886 11			
	$205,170 00	$80,670 63	$88,218 57		$88,218 57

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
CONDUIT 1922 LOAN.					
Electrical Commission—Insurance		$1,742 90			
Electrical Commission—Construction	$10,130 22	44,841 07	$15,479 80		$15,479 80
	$10,130 22	$46,583 97	$15,479 80		$15,479 80
FOUR MILLION 1945 LOAN.					
Dredging Loch Raven		$26,508 79			
Park Board Contingent Fund	$500 00	493 20			
Public park, bounded by Riggs, Fremont and Arlington avenues	1,000 00				
	$1,500 00	$27,001 99			
WATER 1943 LOAN.					
General account		$4,011 50	$39,011 50		$39,011 50
Extension of water supply east of Jones' Falls	$70,000 00	33,902 40			
Extension of water supply west of Gwynn's Falls	225,000 00	673 09			
Lot for and construction of new reservoir	350,000 00	141 90			
	$645,000 00	$38,728 89	$39,011 50		$39,011 50

GENERAL EXPENDITURES.					
Belair Market		$517 79	$10,373 70		$10,373 70
Canton Market		192 37	464 30		464 30
Centre Market		607 24	4,615 70		4,615 70
Cross Street Market		307 30	4,050 45		4,050 45
Fell's Point Market		506 94	7,594 95		7,594 95
Hanover Market		414 18	3,667 95		3,667 95
Hollins Market		311 79	3,581 35		3,581 35
Lafayette Market		247 95	3,097 85		3,097 85
Lexington Market		634 14	15,868 50		15,868 50
Northeast Market		299 65	2,550 98		2,550 98
Richmond Market		374 85	3,810 90		3,810 90
Broadway Hall		87 07	302 50		302 50
Cross Street Hall		202 40	804 00		804 00
Hollins Hall		84 50	235 00		235 00
Fines		210 00	5,337 45		5,337 45
Dog licenses and fines		21,907 49	17,389 68		17,389 68
Dog licenses and fines, city portion			13,696 29		13,696 29
General licenses	1,000 00	554 25	64,143 41		64,143 41
Board from Insane Patients			11,554 55		11,554 55
Pension account, Ida E. O'Keefe	400 00	400 00			
Pension account, W. H. War...	260 00	260 00			
M. Franke, widow of Chas. L. Franke	300 00	300 00			
Fannie E. Schaefer, Resolution No. 37, 1903	300 00	300 00			
Coroners	9,000 00	9,000 00			
Contingent fund $50,000 00					
Appropriations to other accounts 49,552 77					
	447 23	387 32	9,150 00		9,150 00
Board of Estimates	1,000 00	957 11			

STATEMENT C—Continued.

NAMES OF ACCOUNTS.	Appropriations.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
GENERAL EXPENDITURES—Continued.					
Transportation to House of Correction	$500 00	$379 52			
Water for fire plugs at Carroll.	450 00	450 00			
Municipal telephones and exchange	6,993 00	5,721 77	$1,050 40		$1,050 40
Board of Public Improvements	600 00	503 25			
Memorial in Wyman's Park, Ordinance No. 77, 1902	500 00				
Maryland Institute	9,000 00	9,000 00			
Veteran Volunteers' Asso.	1,000 00	1,000 00			
Wharfage		9,386 27	44,247 51		44,247 51
Certain expenses			194,236 16	$194,236 16	
City poor			505,798 60	505,798 60	
City direct			1,537,900 37	1,537,900 37	
Interest, taxes in arrears			76,502 83	76,502 83	
Opening streets			14,297 37	14,297 37	
Assessment of securities			249,724 38	249,724 38	
Income from mortgages			17,752 75	17,752 75	
Paving footways			84 95	84 95	
Mural decorations. Balance from 1902		3,300 00			
Liquor licenses (State's apportionment)			445,594 70		445,594 70

Tax sales		506 50	1,422 50		1,422 50
Public franchises		377 18	28,945 57		28,945 57
Refund to J. L. Gilbert & Bro. Resolution No. 26, 1902	20 20	20 20			
Forfeitures			100 00		100 00
Interest on city deposits in National Banks			40,092 34		40,092 34
Removed cases			805 94		805 94
Rentals from electrical subways			34,076 19		34,076 19
Turnpike dividends			114 30		114 30
Mayor and City Council (surplus)		12,511 14			
Conscience Fund			103 39		103 39
Frederick Bauernschmidt, Ordinance No. 90, 1902	500 00	500 00			
Sale of lot, Mosher street and Elm avenue, Ordinance No. 141, 1903		29 75	423 00		423 00
Commission on widening Light street	500 00	327 00			
Association of Veterans of the Mexican War, aid in building monument	5,000 00	5,000 00			
Opening streets (city's assessment)	13,870 96	13,870 96			
Amounts received to December 1, 1902, but not estimated for in that year		85,541 12	85,541 12		85,541 12
	$51,641 39	$187,489 00	$3,461,103 88	$2,596,297 41	$864,806 47
DIARY OF CITY COUNCIL.					
Salaries	$47,750 00	$47,569 15			
Expenses	11,343 45	11,256 01			
	$59,093 45	$58,825 16			

STATEMENT C—Concluded.

NAMES OF ACCOUNTS.	Appropriations.	FACE OF LEDGER.		Received from Collector of Taxes.	Received From Other Sources.
		Dr.	Cr.		
SUMMARY.					
Inspector of Buildings	$507,188 40	$520,166 47	$6,956 78		$6,956 78
Commissioner of Street Cleaning	383,059 71	382,781 54	960 10		960 10
Superintendent of Lamps and Lighting	361,689 11	359,314 20	2,764 26		2,764 26
Harbor Board	77,012 00	82,774 68	5,296 00		5,296 00
Commissioner of Health	79,828 91	79,753 47	227 00		227 00
Quarantine	16,955 00	16,955 20	15,151 06		15,151 06
Board of Fire Commissioners	539,850 00	539,098 03	2,325 22		2,325 22
Appeal Tax Court	24,875 00	24,490 00			
City Collector	34,800 00	90,888 16	42,666 48		42,666 48
City Engineer	313,856 50	346,013 23	34,310 88		34,310 88
Commissioners for Opening Streets	7,072 00	6,924 80			
Liquor License Commission	14,919 50	14,119 45			
Supervisors of Elections	170,198 00	167,400 83	6,580 00		6,580 00
City Librarian	17,924 83	17,825 33	81 50		81 50
Superintendent of Public Buildings	81,135 00	83,351 79	68 85		68 85
Law Department	27,500 00	27,602 50	493 06		493 06
Electrical Commission	7,486 00	7,421 28			
Mayoralty	17,500 00	16,366 20	1 50		1 50
City Register	1,606,277 96	1,591,797 58	1,492,065 36	$918,535 63	573,529 73
Free Public Bath Commission	17,124 00	16,770 94	5,981 55		5,981 55

Board of School Commissioners	1,336,403 11	1,401.265 32	1,594,747 87	1,254,394 47	340,353 40
Board of Police Commissioners	1,011,339 00	1,004,758 56	998,226 09	998,226 09	.....
Board of Police Examiners	6,182 00	5,979 85	.....	.....	.....
Topographical survey	6,270 00	5,861 51	101 25	.....	101 25
City Comptroller	79,500 00	98,786 34	11,533 37	.....	11,533 37
Visitors to Baltimore City Jail	54,080 00	56,428 13	7,688 10	.....	7,688 10
Board of Park Commissioners	351,168 00	348,213 87	352,140 05	.....	352,140 05
Courts	198,829 85	183,860 89	100 00	.....	100 00
Diary of City Council	59,093 45	58,825 16	.....	.....	.....
Water Board	867,541 00	887,058 77	871,500 96	.....	871,500 96
Sinking Funds	513,010 14	505,182 22	505,182 22	505,182 22	.....
Supervisors of City Charities	438,150 00	413,913 92	1,071 59	.....	1,071 59
Opening streets	4,589 20	17,268 07	24,786 50	22,825 41	1,961 09
Paving streets	706 65	108,411 31	10,340 23	8,801 21	1,539 02
General expenditures	51,641 39	187,489 00	3,461,103 88	2,596,297 41	864,806 47
Conduit 1922 Loan	10,130 22	46,583 97	15,479 80	.....	15,479 80
Conduit 1928 Loan	205,170 00	80,670 63	88,218 57	.....	88,218 57
Four Million 1945 Loan	1,500 00	27,001 99	.....	.....	.....
Water 1943 Loan	645,000 00	38,728 89	39,011 50	.....	39,011 50
	.....	$9,868,104 18	$9,597,161 58	.....	.....
Cash balance Dec. 31, 1902	.....	.....	644,041 72	.....	.....
Cash balance Dec. 31, 1903	.....	373,099 12	.....	.....	.....
	$10,146,555 93	$10,241,203 30	$10,241,203 30	$6,304,262 44	$3,292,899 14

STATEMENT D.

Fund Held in Trust by the City Register for Property Sold for Taxes December 31, 1903.

Water 5 Per Cent. 1916 Loan	$1,300 00	
Consolidated 3½ Per Cent. 1930 Loan	12,912 90	
Refunding 3½ Per Cent. 1940 Loan	6,200 00	
Public Improvement 3½ Per Cent. 1940 Loan	2,800 00	
Cash	719 37	
		$23,932 27

REPORT OF THE
FINANCE COMMISSIONERS
FOR THE YEAR 1903.

BOARD OF FINANCE COMMISSIONERS.

PRESIDENT:

WILTON SNOWDEN.

ROBERT M. McLANE, MAYOR.

HARRY F. HOOPER, REGISTER.

GEO. R. HEFFNER, COMPTROLLER.

WILLIAM T. DIXON.

CLERK:

J. SEWELL THOMAS, DEPUTY REGISTER.

REPORT.

DEPARTMENT OF FINANCE,

SUB-DEPT. COMMISSIONERS OF FINANCE,

CITY HALL.

BALTIMORE, December 31, 1903.

To the Honorable the Members of the First and Second Branches of the City Council of Baltimore.

GENTLEMEN: In compliance with Section 16, Article 47, of the Baltimore City Code of 1893, the Commissioners of Finance have the honor to submit herewith their report showing in detail their transactions during the current year, by the following statements:

1. Receipts and payments on account of the various sinking funds.
2. The purchases of stock for the sinking funds.
3. The condition of the various sinking funds.
4. The condition of the Enoch Pratt Free Library Fund.
5. The condition of the Horwitz Benevolent Fund.
6. The condition of the Frederick Raine Fund.
7. A schedule of real estate from which ground rents are derived.
8. Cash balances of sinking funds.
9. A statement of the funded debt.

The matters embraced in the foregoing are exhibited under their respective heads in a detailed form in the appendix to this report.

1—Receipts and Payments.

The receipts were as follows:

Cash to credit of sinking funds on December 31, 1902	$ 90,431 11	
Interest on stocks and investments	649,222 85	
Rental of real estate	37,214 56	
Interest on deposits (daily balances)	3,715 97	
Mayor and City Council, to supply deficiency in income for Enoch Pratt Free Library	4,258 00	
Mayor and City Council, premium on sale of $80,000 Conduit 3½ Per Cent. 1928 Loan	7,526 22	
Mayor and City Council, premium on sale of $35,000 Water 3½ Per Cent. 1943 Loan	4,011 50	
Mayor and City Council, surplus for 1902.	12,511 14	
Park Board, 5 Per Cent. on gross receipts of park tax during 1903	17,381 30	
City Collector, by tax levy	505,182 22	
Sale of lots 5, 6, 7, 8, 9, 10, 11 and 12 President street, Ordinance No. 108, 1902	32,083 33	
Maryland Trust Company, certificate of deposit	300,000 00	
		$1,663,538 20

The payments were as follows:

Stock purchases for sinking funds	$1,077,942 73	
Redemption of City Hall 1902 Loan	700 00	
Enoch Pratt Free Library	50,000 00	
School Board, on account of Frederick Raine Fund	7 00	
Maryland Institute, on account of Frederick Raine Fund	7 00	
One year's interest on Western Maryland Railroad 4 Per Cent. 1925 Loan	27,360 00	
One year's interest on Western Maryland Railroad 3¼ Per Cent. 1927 Loan	55,380 00	
One year's interest on Western Maryland Railroad 3 ½ Per Cent. 1950 Loan	30,625 00	
One year's interest on Western Maryland Railroad 3½ Per Cent. 1952 Loan	35,000 00	
Sundry expenses (detailed in Statement No. 1 Appendix)	1,606 50	
		$1,278,628 23
Balance to credit of sinking fund, December 31, 1903		$384,909 97

2—Purchases of Stock.

This statement is submitted in obedience to Section 13, Article 47, Baltimore City Code, and exhibits in detail the purchases of stock during the current year, amounting to $957,600, at a cost of $1,077,942.73.

3—The Sinking Funds.

This statement shows the condition of the various sinking funds, set apart for the redemption of the public debt, at their face value. They are held in trust by the Commissioners of Finance and amount to $18,527,963.48.

4—Enoch Pratt Free Library Fund.

This statement shows the condition of the Enoch Pratt Free Library Fund, under the control of the Commissioners of Finance, who were required "to invest the interest upon the investments in the sinking fund, and the interest upon the interest, as the same shall be received, in the public debt on the city of Baltimore until the annual income from said investments shall reach the sum of fifty thousand dollars." In the meantime the Mayor and City Council were required to pay the annuity by tax levy. In 1892 taxation for this purpose ceased, for the reason that the income from investments contained in the fund yielded $50,341.00.

By the redemption of the five and six per cent. loans in the fund from 1893 to the year 1902 and the reinvestment of the amounts received therefrom in stock bearing three and one-half per cent. interest, the income has been reduced to $45,742; consequently it will be necessary for the Mayor and City Council to supply the annual deficiency of $4,258 by taxation.

5—The Horwitz Benevolent Fund.

This statement shows the condition of the Horwitz Benevolent Fund, under the management of the Commissioners of Finance, who on December 28, 1888, under authority of Resolution No. 7, of 1888, accepted from the executors of Orville Horwitz, deceased, the sum of ten thousand ($10,000) dollars, which, with its increments is in the said last will and testament directed to be known as the "Horwitz Benevolent Fund."

6—The Frederick Raine Fund.

This statement shows the condition of the Frederick Raine Fund, under the control of the Commissioners of Finance, who, on November 6, 1897, under authority of Resolution No. 51, of 1897, accepted from the executors of the estate of Frederick Raine, deceased, four

hundred dollars (and accrued interest amounting to eighteen dollars and seventy cents), which amount has been invested in city stock; "the interest on two hundred dollars thereof to be annually expended for a medal, to be known as the 'Frederick Raine Medal,' and to be presented to the student in Baltimore City College who shall be adjudged, by the methods of determining merit practiced in said college, to be most proficient in the study of the German language and German literature," and "the interest on two hundred dollars thereof to be annually expended for a medal known as the 'Frederick Raine Medal,' and to be presented to the student in the Maryland Institute for the Promotion of the Mechanics' Arts, who shall be adjudged, by the methods of determining merit practiced in said Institute, to be most proficient in mechanical drawing," according to the terms of the last will and testament of said Frederick Raine, deceased.

7—Real Estate and Ground Rents.

The schedule of real estate and ground rents, presented in this form for convenience of reference, embraces only so much of the city property as is in control and shown upon the books of the Commissioners of Finance, and from which income is derived from rentals.

The income derived from public wharves and market houses being applied to current expenses of the Mayor and City Council does not appear in these accounts. (Section 14, Article 47, City Code.)

8—Cash Balances of Sinking Funds.

This statement shows the cash balances of the sinking funds, which aggregate on December 31, 1903, $384,909.97.

Western Maryland Railroad Company.

A sale of the city's interest in the Western Maryland Railroad Company was made on June 27, 1902, to the Fuller Syndicate for the sum of $8,751,370.45, *cash*, and the securities and cash contained in the following sinking funds, held in trust by the Commissioners of Finance for the Western Maryland Railroad Company, viz: The Hillen Station Sinking Fund, amounting to $87,959.57, which was set apart for the redemption of the ground rent on Hillen Station property; the Western Maryland Railroad Terminal Company Sinking Fund, amounting to $35,187.85, which was set apart for the redemption of the ground rent on the Western Maryland Railroad Terminal Company depot property; also, the Western Maryland Railroad 1927 Loan Sinking Fund, amounting to $162,662.29, which was set apart for the redemption of the Western Maryland Railroad 3¼ Per Cent. 1927 Loan.

This last named amount of $162,662.29, with the addition of $4,263,000, plus $65,909.71, making a total of $4,328,909.71 invested, as shown by Statement No. 3 in appendix to this report, was placed in a special sinking fund, to be called the "Western Maryland Railroad Sinking Fund," for the redemption at maturity of the Western Maryland Railroad 4 Per Cent. 1925 Loan, amounting to $684,000; the Western Maryland Railroad 3¼ Per Cent. 1927 Loan, amounting to $1,704,000; the Western Maryland Railroad 3½ Per Cent. 1950 Loan, amounting to $875,000, and the Western Maryland Railroad 3½ Per Cent. 1952 Loan, amounting to $1,000,000. Total, $4,263,000.

The investment of $4,263,000 of above amount of $4,328,909.71 is secured by certificates of deposit with a like amount of city stock as collateral, balance by indemnity bond.

The interest on the investment of said fund is to be applied to the payment of the annual interest on the outstanding loans mentioned. The addition to the special fund of $4,263,000 of the amount contained in the Western Maryland Railroad 1927 Loan Sinking Fund ($162,662.29), and $65,909.71 from proceeds of the sale was made in order to provide the annual deficiency between the fixed interest charge of $148,365 per annum on above outstanding loans and the interest to be derived from the investment of $4,263,000 in said sinking fund at 3¼ per cent., amounting to $138,547.50 annually.

The balance of the purchase price of the Western Maryland Railroad, amounting to the sum of $4,422,460.74, excepting $100,000 paid on account of purchase May 7, 1902, and invested in city stock, was by the Commissioners of Finance, with the approval of the Mayor, invested in certificates of deposit of national banks and trust companies of Baltimore city, bearing three and one-half per cent. interest per annum, the payment of which is guaranteed by bonding companies. These certificates run to January 1, 1903, after which time they are subject to thirty days' call.

The Commissioners of Finance, with the approval of the City Solicitor, have decided to appropriate $4,250,000 of this balance of $4,422,460.74, provided a legislative enactment authorizing the same can be obtained, to the following purposes:

$2,000,000 as a nucleus for a sinking fund, with its annual increments, for the redemption of $10,000.000 of sewerage bonds running for fifty years from date of issue.

$1,000,000 for purchase at par and the retirement of same of an even amount of said bonds when issued.

$1,000,000 to be paid in cash to the Mayor and City Council, as the same may be required, for the acquirement of lots and erection thereon of school houses.

$250,000 to be paid in cash to the Mayor and City Council, as the same may be required, for the purchase of lots and erection thereon of engine houses and for permanent fire equipment, including a new fireboat.

Increment of Sinking Funds.

The increment of the sinking funds from December 31, 1902, to December 31, 1903, amounting to			$935,590 10
Was derived thus:			
From interest upon stocks and investments		$602,890 59	
From rental of real estate		37,214 56	
From interest on deposits (daily balances)		3,715 97	
From Mayor and City Council, surplus for 1902		12,511 14	
From Park Board, five per cent. of gross receipts of park tax during 1903		17,381 30	
From City Collector, by tax levy		505,182 22	
From premium on sales of $115,000 3½ per cent. stock		11,537 72	
From sale of lots Nos. 5, 6, 7, 8, 9, 10, 11 and 12 President st	$32,083 33		
Less valuation of same as assets of General Sinking Fund estimated upon a capitalization at 6 per cent. of the annual rental from lease of said lots of $954.75 as shown in Statement No. 7 of 1902 report of Commissioners of Finance	15,912 50	16,170 83	
			$1,206,604 33
From which deduct:			
Premium on stocks purchased		$120,342 73	
Redemption of City Hall 6 Per Cent. 1902 Loan		700 00	
One year's interest on Western Maryland Railroad 4 Per Cent. 1925 Loan		27,360 00	
One year's interest on Western Maryland Railroad 3¼ Per Cent. 1927 Loan		55,380 00	
One year's interest on Western Maryland Railroad 3½ Per Cent. 1950 Loan		30,625 00	
One year's interest on Western Maryland Railroad 3½ Per Cent. 1952 Loan		35,000 00	
Sundry expenses		1,606 50	
			271,014 23
			$935,590 10

And disbursed as shown in Statement No. 1 of Appendix to this report.

The value of the Sinking Funds on Dec. 31, 1903, is	$18,527,963 48
The value of the Sinking Funds on Dec. 31, 1902 was	17,592,373 38
Showing an increase during the year of	$935,590 10

9—Funded Debt.

The funded debt on December 31, 1903, is		$39,964,482 95
The funded debt on December 31, 1902, was		39,850,182 95
Showing an increase during the year of		$114,300 00
Thus:		
Conduit 3½ Per Cent. 1928 Loan, issued	$80,000 00	
Water 3½ Per Cent. 1943 Loan, issued	35,000 00	
	$115,000 00	
Less:		
City Hall 6 Per Cent. 1902 Loan, redeemed	700 00	
		$114,300 00

Increase of Funded Debt Authorized, but Not Yet Issued.

Four Million 3½ Per Cent. 1945 Loan, Ordinance No. 137 of 1894	$107,500 00	
Conduit 3½ Per Cent. 1928 Loan, Ordinance No. 87 of 1902	920,000 00	
Water 3½ Per Cent. 1943 Loan, Ordinance No. 86 of 1902	965,000 00	
		$1,992,500 00

The Financial Condition of the Corporation.

Amount of the funded debt, December 31, 1903		$39,964,482 95
Against which the city holds the following assets:		
Productive.		
Sinking Funds, face value	$18,527,963 48	
Waterworks, cost	12,535,000 00	
Electrical Subway System, cost	1,080,000 00	
500 shares Baltimore and Reisterstown Turnpike Company stock	2,062 50	
137 shares Baltimore and Frederick Turnpike Company stock	456 66	
		32,145,482 64
Excess of funded debt over productive assets		$7,819,000 31

UNPRODUCTIVE.

10,000 shares of Valley Railroad Company of Virginia stock	.....	
625 shares of Baltimore and York Turnpike stock	.....	
New Court House, cost	$2,750,000 00	
Market and school-houses, wharves, City Hall, jail, police stations, almshouse, iceboats, Quarantine Station, public parks and squares, morgue, etc., valued at	11,500,000 00	
		$14,250,000 00

The 1,312 shares of Turnpike stock named above are not in the custody of the Commissioners of Finance.

The foregoing statement does not embrace any items connected with the current receipts and expenditures, but refers only to the stock obligations of the corporation and to investments specially set apart for the redemption of the same. The accounts now submitted for your consideration exhibit in detail all the transactions of the Commissioners of Finance for the current fiscal year.

They show the receipts, including a cash balance of $90,431.11 at the beginning of the year, to have been	$1,663,538 20
And the payments to have been	1,278,628 23
Leaving a balance to credit of sinking funds on December 31, 1903, of	$384,909 97

This Board purchased from the Mayor and City Council during the year for the sinking funds $40,000 Conduit 3½ Per Cent. 1928 Loan, at 108.63; $40,000 of same loan, at 110.185; $5,000 Water 3½ Per Cent. 1943 Loan, at 111.53, and $30,000 of same loan, at 111.45, ex-interest.

Respectfully submitted,

WILTON SNOWDEN, President,
ROBERT M. MCLANE, Mayor,
HARRY F. HOOPER, Register,
GEO. R. HEFFNER, Comptroller,
WILLIAM T. DIXON,
Commissioners of Finance.

J. SEWELL THOMAS, Deputy Register,
Clerk to Commissioners of Finance.

APPENDIX.

STATEMENT

DR. THE COMMISSIONERS OF FINANCE IN ACCOUNT WITH

Balance December 31, 1902		$90,431 11
TO GENERAL SINKING FUND.		
From interest on stocks and investments.	$ 89,109 58	
From interest on certificates of deposit...	150,448 62	
From interest on deposits (daily balances).	3,715 97	
From City Collector by tax levy	74,841 50	
From Mayor and City Council—Surplus for 1902	12,511 14	
From sale of lots, President and Alice-anna streets	32,083 33	
From Fidelity and Deposit Company of Maryland, American Bonding Company, and United States Fidelity and Guarantee Company, sureties for Maryland Trust Company, for certificates deposit.	300,000 00	
From rental of real estate	37,214 56	
		699,924 70
TO PUBLIC PARK SINKING FUND.		
From interest on stocks		252 26
TO PUBLIC PARK SINKING FUND NO. 2.		
From interest on stocks	$ 3,833 00	
From Park Board, 5 per cent. on gross receipts of park tax for 1903	17,381 30	
		21,214 30
TO WESTERN MARYLAND R. R. SINKING FUND.		
From interest on stocks	$ 5,289 00	
From interest on certificates of deposit...	140,854 36	
		146,143 36
TO PUBLIC IMPROVEMENT 1940 LOAN SINKING FUND.		
From interest on stocks	$22,749 50	
From City Collector by tax levy	62,154 84	
		84,904 34
TO INTERNAL IMPROVEMENT 1928 LOAN SINKING FUND.		
From interest on stocks	$51,241 75	
From City Collector by tax levy	93,232 39	
		144,474 14
Amount brought forward		$1,187,344 21

No. 1.

THE MAYOR AND CITY COUNCIL OF BALTIMORE. CR.

BY GENERAL SINKING FUND.		
For redemption of City Hall 6 Per Cent. 1902 Loan	$ 700 00	
For $1,600 Harford Run 4 Per Cent. 1920 Loan	1,842 84	
For $50,000 Harford Run 4 Per Cent. 1904 Loan	50,750 00	
For $9,300 Funding 5 Per Cent. 1916 Loan	11,473 37	
For $235,900 W. M. R.R. 3¼ Per Cent. 1927 Loan	247,776 65	
For $4,500 W. M. R. R. 4 Per Cent. 1925 Loan	5,271 78	
For $11,200 Consolidated 3½ Per Cent. 1930 Loan	12,327 48	
For $15,000 Funding 3½ Per Cent. 1936 Loan	16,946 92	
For $40,000 Conduit 3½ Per Cent. 1928 Loan	44,074 22	
For $30,000 Water 3½ Per Cent. 1943 Loan	33,435 00	
For sundry expenses, books, printing report, etc	379 50	
For 5,000 Certificates of Consolidated 1930 Loan	425 00	
For rent of safe in Safe Deposit and Trust Company's vault	60 00	
For clerical assistance	100 00	
		$425,562 76
BY PUBLIC PARK SINKING FUND NO. 2.		
For $15,000 Funding 3½ Per Cent. 1936 Loan		16,946 92
BY WESTERN MARYLAND R. R. SINKING FUND.		
For one year's interest on Western Maryland R. R. 4 Per Cent. 1925 Loan	$27,360 00	
For one year's interest on Western Maryland R. R. 3¼ Per Cent. 1927 Loan	55,380 00	
For one year's interest on Western Maryland R. R. 3½ Per Cent. 1950 Loan	30,625 00	
For one year's interest on Western Maryland R. R. 3½ Per Cent. 1952 Loan	35,000 00	
		148,365 00
Amount brought forward		$590,874 68

STATEMENT

DR. THE COMMSSIONER OF FINANCE IN ACCOUNT WITH

Amount brought forward		$1,187,344 21
TO FOUR MILLION 1945 LOAN SINKING FUND.		
From interest on stocks	$10,212 50	
From City Collector by tax levy	15,538 76	
		25,751 26
TO FUNDING 1936 LOAN SINKING FUND.		
From interest on stocks	$9,089 00	
From City Collector by tax levy	31,077 41	
		40,166 41
TO WATER 1922 LOAN SINKING FUND.		
From interest on stocks	$9,700 50	
From City Collector by tax levy	15,538 76	
		25,239 26
TO WATER 1926 LOAN SINKING FUND.		
From interest on stocks	$19,249 26	
From City Collector by tax levy	31,077 41	
		50,326 67
TO WATER 1916 LOAN SINKING FUND.		
From interest on stocks	$63,558 76	
From City Collector by tax levy	62,154 80	
		125,713 56
TO ENOCH PRATT FREE LIBRARY FUND.		
From interest on stocks	$45,742 00	
From Mayor and City Council to supply deficiency in income for 1903	4,258 00	
		50,000 00
TO CONDUIT 1928 LOAN SINKING FUND.		
From City Collector by tax levy	$26,449 86	
From premium of sale $80,000 Conduit 1928 Loan	7,526 22	
		33,976 08
TO WATER 1943 LOAN SINKING FUND.		
From premium of sale of $35,000 Water 1943 Loan		4,011 50
TO HORWITZ BENEVOLENT FUND.		
From interest on stocks		576 26
Amount brought forward		$1,543,105 21

No. 1—Continued.

THE MAYOR AND CITY COUNCIL OF BALTIMORE. CR.

Amount brought forward		$590,874 68
BY PUBLIC IMPROVEMENT 1940 LOAN SINKING FUND.		
For $5,400 Public Improvement 3½ Per Cent. 1940 Loan	$ 6,050 74	
For $600 Western Maryland Railroad 4 Per Cent. 1925 Loan	707 95	
For $2,600 Harford Run 4 Per Cent. 1920 Loan	2,932 47	
For $5,000 Water 3½ Per Cent. 1943 Loan	5,576 50	
For $3,000 Western Maryland 3½ Per Cent. 1952 Loan	3,309 92	
For 15,000 Harford Run 4 Per Cent. 1904 Loan	15,225 00	
For $6,800 Consolidated 3½ Per Cent. 1930 Loan	7,461 03	
For $10,000 Water 5 Per Cent. 1916 Loan	12,206 22	
For $1,500 Water 4 Per Cent. 1926 Loan	1,757 95	
For $20,000 Funding 3½ Per Cent. 1936 Loan	22,595 89	
		$77,823 67
BY INTERNAL IMPROVEMENT 1928 LOAN SINKING FUND.		
For $5,000 Public Improvement 3½ Per Cent. 1940 Loan	$5,556 25	
For $7,900 Internal Improvement 3½ Per Cent. 1928 Loan	8,669 62	
For $98,000 Water 5 Per Cent. 1916 Loan	119,237 27	
For $5,000 Funding 3½ Per Cent. 1936 Loan	5,648 98	
		139,112 12
BY FOUR MILLION 1945 LOAN SINKING FUND.		
For $11,200 Four Million 3½ Per Cent. 1945 Loan	$12,577 67	
For $10,000 Funding 3½ Per Cent. 1936 Loan	11,297 94	
		23,875 61
BY FUNDING 1936 LOAN SINKING FUND.		
For $25,400 Funding 3½ Per Cent. 1936 Loan	$28,689 63	
For $500 Harford Run 4 Per Cent. 1920 Loan	567 50	
For $4,000 Public Improvement 3½ Per Cent. 1940 Loan	4,470 00	
For $400 Consolidated 3½ Per Cent. 1930 Loan	440 00	
		34,167 13
Amount brought forward		$865,853 21

STATEMENT

DR. THE COMMISSIONERS OF FINANCE IN ACCOUNT WITH

Amount brought forward		$1,543,105 21
TO FREDERICK RAINE FUND.		
From interest on stocks		14 00
TO CONDUIT 1922 LOAN SINKING FUND.		
From interest on stocks	$ 4,900 00	
From City Collector by tax levy	31,077 41	
		35,977 41
TO REFUNDING 1940 LOAN SINKING FUND.		
From interest on stocks	$22,402 50	
From City Collector by tax levy	62,039 08	
		84,441 58
		$1,663,538 20

No. 1—Concluded.

MAYOR AND CITY COUNCIL OF BALTIMORE. CR.

Amount brought forward...		$865,853 21
BY WATER 1922 LOAN SINKING FUND.		
For $19,200 Water 5 Per Cent. 1916 Loan..		23,382 97
BY WATER 1926 LOAN SINKING FUND.		
For $7,500 Water 4 Per Cent. 1926 Loan....	$ 8,869 76	
For $36,200 Water 5 Per Cent. 1916 Loan.	44,162 80	
For $1,100 Funding 5 Per Cent. 1916 Loan	1,345 38	
		54,377 94
BY WATER 1916 LOAN SINKING FUND.		
For $102,300 Water 5 Per Cent. 1916 Loan.	$126,299 55	
For $4,500 Funding 5 Per Cent. 1916 Loan.	5,565 16	
		131,864 71
BY ENOCH PRATT FREE LIBRARY FUND.		
For annuity		50,000 00
BY CONDUIT 1928 LOAN SINKING FUND.		
For $30,000 Conduit 3½ Per Cent. 1928 Loan	$32,589 00	
For books	21 00	
For 2,000 certificates of stock	300 00	
		32,910 00
BY WATER 1943 LOAN SINKING FUND.		
For books	$21 00	
For 2,000 certificates of stock	300 00	
		321 00
BY FREDERICK RAINE FUND.		
For amount paid School Board	$7 00	
For amount paid Maryland Institute	7 00	
		14 00
BY CONDUIT 1922 LOAN SINKING FUND.		
For $10,000 Conduit 3½ Per Cent. 1928 Loan	$10,863 00	
For $20,000 Funding 3½ Per Cent. 1936 Loan	22,595 89	
		33,458 89
BY REFUNDING 1940 LOAN SINKING FUND.		
For $67,000 Refunding 3½ Per Cent. 1940 Loan	$75,147 57	
For $10,000 Funding 3½ Per Cent. 1936 Loan	11,297 94	
		86,445 51
Balance December 31, 1903		384,909 97
		$1,663,538 20

STATEMENT No. 2.

STOCKS PURCHASED FOR SINKING FUNDS AS REQUIRED BY SECTION 13, ARTICLE 47, CITY CODE.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1903.				
Jan. 2...	Internal Imp't 1928 Loan.....	$5,000 00	Public Imp't 3½ Per Cent. 1940 Loan..	$5,556 25
Jan. 5...	General.....	100 00	Harford Run 4 Per Cent. 1920 Loan.....	113 24
Jan. 16...	Water 1916 Loan	4,500 00	Water 5 Per Cent. 1916 Loan	5,537 75
Jan. 28...	General.....	100 00	Funding 5 Per Cent. 1916 Loan	123 16
Feb. 4...	Water 1916 Loan	5,000 00	Water 5 Per Cent. 1916 Loan.....	6,162 08
Feb. 7...	Water 1916 Loan	1,000 00	Water 5 Per Cent. 1916 Loan.....	1,232 83
Feb. 21...	Water 1916 Loan	10,000 00	Water 5 Per Cent. 1916 Loan.....	12,347 77
Feb. 21...	Water 1926 Loan	400 00	Water 4 Per Cent. 1926 Loan.....	471 89
Mar. 3.....	Water 1916 Loan	3,000 00	Water 5 Per Cent. 1916 Loan.....	3,709 33
Mar. 3.....	Water 1916 Loan	300 00	Funding 5 Per Cent. 1916 Loan	370 93
Mar. 5.....	Water 1916 Loan	4,200 00	Funding 5 Per Cent. 1916 Loan.....	5,194 23
Mar. 10...	General.....	2,000 00	Funding 5 Per Cent. 1916 Loan.....	2,474 83
Mar. 10...	Funding 1936 Loan.....	400 00	Funding 3½ Per Cent. 1936 Loan.....	444 78
Mar. 13...	Public Imp't 1940 Loan	900 00	Public Imp't 3½ Per Cent. 1940 Loan..	1,006 52
Mar. 13...	Water 1916 Loan	5,000 00	Water 5 Per Cent. 1916 Loan.....	6,189 17
Mar. 13...	Water 1916 Loan	2,900 00	Water 5 Per Cent. 1916 Loan.....	3,589 72
Mar. 14...	General.....	1,000 00	W. M. R. R. 3¼ Per Cent. 1927 Loan.	1,048 47
Mar. 16...	General.....	1,300 00	W. M. R. R. 4 Per Cent. 1925 Loan	1,522 47
Mar. 16...	General.....	4,500 00	W. M. R R. 3¼ Per Cent. 1927 Loan...	4,719 02
Mar. 17...	General.....	14,700 00	W. M. R. R. 3¼ Per Cent. 1927 Loan...	15,416 78
Mar. 17...	General.....	1,000 00	W. M. R. R. 4 Per Cent. 1925 Loan	1,171 36
Mar. 17...	Water 1926 Loan	4,600 00	Water 4 Per Cent. 1926 Loan.....	5,452 94
Mar. 23...	Water 1916 Loan	10,300 00	Water 5 Per Cent. 1916 Loan.....	12,765 42
Mar. 23...	General.....	3,000 00	Funding 5 Per Cent. 1916 Loan	3,718 08
Mar. 23	General..	600 00	W. M. R. R. 4 Per Cent. 1925 Loan	701 53
Mar. 26...	Water 1926 Loan	1,500 00	Water 4 Per Cent. 1926 Loan.....	1,779 63
Mar. 28..	Internal Imp't 1928 Loan	3,600 00	Internal Imp't 3½ Per Cent. 1928 Loan.	3,949 77

Mar. 30...	General	2,000 00	Funding 5 Per Cent. 1916 Loan	2,480 39
Mar. 31...	General	300 00	Consolidated 3½ Per Cent. 1930 Loan.	330 75
Mar. 31...	Four Million 1945 Loan	5,000 00	Four Million 3½ Per Cent. 1945 Loan..	5,609 08
April 2...	General	3.100 00	W. M. R. R. 3¼ Per Cent. 1927 Loan..	3,255 07
April 2...	General	3,700 00	Consolidated 3½ Per Cent. 1930 Loan..	4,077 21
April 2...	Internal Imp't 1928 Loan	3,000 00	Internal Imp't 3½ Per Cent. 1928 Loan.	3,292 35
April 2...	Water 1916 Loan	100 00	Water 5 Per Cent. 1916 Loan	124 05
April 6...	Water 1916 Loan	200 00	Water 5 Per Cent. 1916 Loan	248 21
April 6	Internal Imp't 1928 Loan	100 00	Internal Imp't 3½ Per Cent. 1928 Loan.	109 79
April 7...	Water 1916 Loan	7,500 00	Water 5 Per Cent. 1916 Loan	9,308 75
April 7...	Water 1916 Loan	2,800 00	Water 5 Per Cent. 1916 Loan	3,475 27
April 8...	General	200,000 00	W. M. R. R. 3¼ Per Cent. 1927 Loan ..	210,131 40
April 9...	Water 1916 Loan	30,000 00	Water 5 Per Cent. 1916 Loan	37,243 34
April 9...	Water 1916 Loan	2,000 00	Water 5 Per Cent. 1916 Loan	2,482 88
April 13	General	1,800 00	Consolidated 3½ Per Cent. 1930 Loan..	1,985 78
April 13...	Internal Imp't 1928 Loan	1,000 00	Internal Imp't 3½ Per Cent. 1928 Loan.	1,098 71
April 17...	Refunding 1940 Loan	67,000 00	Refunding 3½ Per Cent. 1940 Loan.. ..	75,147 57
April 17 ..	General	1,500 00	W. M. R. R. 4 Per Cent. 1925 Loan	1,759 92
April 20...	Internal Imp't 1928 Loan	33,000 00	Water 5 Per Cent. 1916 Loan	40,121 40
April 28...	General	2,000 00	Consolidated 3½ Per Cent 1930 Loan..	2,209 34
May 1..	Water 1926 Loan	15,000 00	Water 5 Per Cent. 1916 Loan	18,243 00
May 1...	Water 1922 Loan	10,000 00	Water 5 Per Cent. 1916 Loan	12,162 00
May 4...	Public Imp't 1940 Loan	1,000 00	Public Imp't 3½ Per Cent 1940 Loan..	1,122 46
May 8...	Internal Im'pt 1928 Loan	25,000 00	Water 5 Per Cent. 1916 Loan	30,424 31
May 11..	Internal Imp't 1928 Loan	40,000 00	Water 5 Per Cent. 1916 Loan	48,691 56
May 19...	Four Million 1945 Loan	5,000 00	Four Million 3½ Per Cent. 1945 Loan..	5,632 42
June 1..	Water 1916 Loan	1,700 00	Water 5 Per Cent. 1916 Loan	2,074 52
June 4...	Public Imp't 1940 Loan	600 00	W. M. R. R. 4 Per Cent. 1925 Loan	707 95
June 4...	Public Imp't 1940 Loan.	600 00	Harford Run 4 Per Cent. 1920 Loan	689 71
June 4...	Public Imp't 1940 Loan	2,000 00	Public Imp't 3½ Per Cent. 1940 Loan..	2,252 54
June 4 ..	Public Imp't 1940 Loan	1,900 00	Consolidated 3½ Per Cent. 1930 Loan..	2,105 53
June 4...	Public Imp't 1940 Loan	10,000 00	Water 5 Per Cent. 1916 Loan	12,206 22
June 4...	General	1,000 00	Funding 5 Per Cent. 1916 Loan	1,219 58
	Amount brought forward ...	$570,800 00		$648,793 01

STATEMENT No. 2—Concluded.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1903.	Amount brought forward...	$570,800 00		$648,793 01
June 4...	General.....	9,400 00	W. M. R. R. 3¼ Per Cent. 1927 Loan ..	9,923 71
July 10...	Conduit 1928 Loan.....	30,000 00	Conduit 3½ Per Cent. 1928 Loan.....	32,589 00
July 10...	Conduit 1922 Loan.....	10,000 00	Conduit 3½ Per Cent. 1928 Loan.....	10,863 00
July 10...	Public Imp't 1940 Loan.....	5,000 00	Water 3½ Per Cent. 1943 Loan.....	5,576 50
July 31...	General.....	500 00	Consolidated 3½ Per Cent. 1930 Loan ..	536 40
Aug. 1	Water 1926 Loan	2,400 00	Water 5 Per Cent. 1916 Loan.....	2,914 80
Aug. 1...	Water 1926 Loan	100 00	Funding 5 Per Cent. 1916 Loan	121 45
Aug. 6...	Public Imp't 1940 Loan.....	3,000 00	W. M. R. R. 3½ Per Cent. 1952 Loan...	3,309 92
Aug. 6...	Four Million 1945 Loan.....	1,000 00	Four Million 3½ Per Cent. 1945 Loan..	1,108 57
Aug. 11..	General.....	50,000 00	Harford Run 4 Per Cent. 1904 Loan.....	50,750 00
Aug. 11...	Public Imp't 1940 Loan.....	15,000 00	Harford Run 4 Per Cent. 1904 Loan.....	15,225 00
Aug. 11...	Public Imp't 1940 Loan.....	2,000 00	Harford Run 4 Per Cent. 1920 Loan....	2,242 76
Aug. 15...	Public Imp't 1940 Loan	1,000 00	Consolidated 3½ Per Cent. 1930 Loan	1,085 00
Aug. 19...	Public Imp't 1940 Loan	3,900 00	Consolidated 3½ Per Cent. 1930 Loan..	4,270 50
Aug. 19...	Public Imp't 1940 Loan.....	1,200 00	Public Imp't 3½ Per Cent. 1940 Loan..	1,334 72
Aug. 19...	Public Imp't 1940 Loan.....	1,500 00	Water 4 Per Cent. 1926 Loan.....	1,757 95
Sept. 4...	General.....	800 00	Funding 5 Per Cent. 1916 Loan	968 00
Sept. 4...	General	3,200 00	W. M. R. R. 3¼ Per Cent. 1927 Loan..	3,282 20
Sept. 24...	General	400 00	Consolidated 3½ Per Cent. 1930 Loan..	438 00
Sept. 25...	General	1,000 00	Consolidated 3½ Per Cent. 1930 Loan..	1,100 00
Sept. 28...	Internal Imp't 1928 Loan....	200 00	Internl' Imp't 3½ Per Cent. 1928 Loan	219 00
Sept. 29...	General	1,500 00	Consolidated 3½ Per Cent. 1930 Loan..	1,650 00
Sept. 29...	Public Imp't 1940 Loan.....	300 00	Public Imp't 3½ Per Cent. 1940 Loan..	334 50
Sept. 30...	Water 1922 Loan	1,000 00	Water 5 Per Cent. 1916 Loan.....	1,225 00
Sept. 30...	Funding 1936 Loan.....	500 00	Harford Run 4 Per Cent. 1920 Loan....	567 50
Sept. 30...	Funding 1936 Loan.....	4,000 00	Public Imp't 3½ Per Cent. 1940 Loan..	4,470 00
Sept. 30...	Funding 1936 Loan.....	400 00	Consolidated 3½ Per Cent. 1930 Loan..	440 00
Oct. 2...	General	100 00	W. M. R. R. 4 Per Cent. 1925 Loan.....	116 50

Oct.	2...	Water 1922 Loan	500 00	Water 5 Per Cent. 1916 Loan	612 50
Oct.	7...	Water 1926 Loan	5,100 00	Water 5 Per Cent. 1916 Loan	6,240 71
Oct.	7...	Water 1926 Loan	400 00	Funding 5 Per Cent. 1916 Loan	489 46
Oct.	9...	Water 1926 Loan	700 00	Water 5 Per Cent. 1916 Loan	861 00
Oct.	10...	Water 1926 Loan	8,000 00	Water 5 Per Cent. 1916 Loan	9,793 56
Oct.	10...	Water 1926 Loan	600 00	Funding 5 Per Cent. 1916 Loan	734 47
Oct.	22...	Water 1916 Loan	1,000 00	Water 5 Per Cent. 1916 Loan	1,200 00
Oct.	23...	Water 1926 Loan	1,000 00	Water 4 Per Cent. 1926 Loan	1,165 30
Nov.	6...	Water 1916 Loan	100 00	Water 5 Per Cent. 1916 Loan	120 72
Nov.	9...	Water 1922 Loan	2,700 00	Water 5 Per Cent. 1916 Loan	3,273 75
Nov.	10...	Water 1916 Loan	10,000 00	Water 5 Per Cent. 1916 Loan	12,143 00
Nov.	10...	Water 1916 Loan	1,000 00	Water 5 Per Cent. 1916 Loan	1,215 00
Nov.	18...	Four Million 1945 Loan	200 00	Four Million 3½ Per Cent. 1945 Loan	227 60
Nov.	24...	General	15,000 00	Funding 3½ Per Cent. 1936 Loan	16,946 92
Nov.	24...	Public Park, No. 2	15,000 00	Funding 3½ Per Cent. 1936 Loan	16,946 92
Nov.	24...	Public Imp't 1940 Loan	20,000 00	Funding 3½ Per Cent. 1936 Loan	22,595 89
Nov.	24...	Internal Imp't 1928 Loan	5,000 00	Funding 3½ Per Cent. 1936 Loan	5,648 98
Nov.	24...	Four Million 1945 Loan	10,000 00	Funding 3½ Per Cent. 1936 Loan	11,297 94
Nov.	24...	Funding 1936 Loan	25,000 00	Funding 3½ Per Cent. 1936 Loan	28,244 85
Nov.	24...	Conduit 1922 Loan	20,000 00	Funding 3½ Per Cent. 1936 Loan	22,595 89
Nov.	24...	Refunding 1940 Loan	10,000 00	Funding 3½ Per Cent. 1936 Loan	11,297 94
Dec.	1	General	1,500 00	Harford Run 4 Per Cent. 1920 Loan	1,729 60
Dec.	10...	General	40,000 00	Conduit 3½ Per Cent. 1928 Loan	44,074 22
Dec.	11...	Water 1916 Loan	1,000 00	Water 5 Per Cent. 1916 Loan	1,221 66
Dec.	18...	Water 1916 Loan	1,000 00	Water 5 Per Cent. 1916 Loan	1,217 50
Dec.	21...	Water 1922 Loan	5,000 00	Water 5 Per Cent. 1916 Loan	6,109 72
Dec.	21...	Water 1926 Loan	5,000 00	Water 5 Per Cent. 1916 Loan	6,109 73
Dec.	28...	Water 1916 Loan	1,800 00	Water 5 Per Cent. 1916 Loan	2,201 25
Dec.	30	General	30,000 00	Water 3½ Per Cent. 1943 Loan	33,435 00
Dec.	31...	General	400 00	Funding 5 Per Cent. 1916 Loan	489 33
Dec.	31...	Water 1916 Loan	400 00	Water 5 Per Cent. 1916 Loan	489 33
			$957,600 00		$1,077,942 73

Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
General	$ 1,600 00	Harford Run 4 Per Cent. 1920 Loan	$ 1,842 84
General	50,000 00	Harford Run 4 Per Cent. 1904 Loan	50,750 00
General	9,300 00	Funding 5 Per Cent. 1916 Loan	11,473 37
General	235,900 00	Western Maryland R. R. 3¼ Per Cent. 1927 Loan	247,776 65
General	4,500 00	Western Maryland R. R. 4 Per Cent. 1925 Loan	5,271 78
General	11,200 00	Consolidated 3½ Per Cent. 1930 Loan	12,327 48
General	15,000 00	Funding 3½ Per Cent. 1936 Loan	16,946 92
General	40,000 00	Conduit 3½ Per Cent. 1928 Loan	44,074 22
General	30,000 00	Water 3½ Per Cent. 1943 Loan	33,435 00
Internal Imp. 1928 Loan	5,000 00	Public Improvement 3½ Per Cent. 1940 Loan	5,556 25
Internal Imp. 1928 Loan	7,900 00	Internal Improvement 3½ Per Cent. 1928 Loan	8,669 62
Internal Imp. 1928 Loan	98,000 00	Water 5 Per Cent. 1916 Loan	119,237 27
Internal Imp. 1928 Loan	5,000 00	Funding 3½ Per Cent. 1936 Loan	5,648 98
Water 1916 Loan	102,300 00	Water 5 Per Cent. 1916 Loan	126,299 55
Water 1916 Loan	4,500 00	Funding 5 Per Cent. 1916 Loan	5,565 16
Four Million 1945 Loan	11,200 00	Four Million 3½ Per Cent. 1945 Loan	12,577 67
Four Million 1945 Loan	10,000 00	Funding 3½ Per Cent. 1936 Loan	11,297 94
Water 1926 Loan	7,500 00	Water 4 Per Cent 1926 Loan	8,869 76
Water 1926 Loan	36,200 00	Water 5 Per Cent. 1916 Loan	44,162 80
Water 1926 Loan	1,100 00	Funding 5 Per Cent. 1916 Loan	1,345 38
Water 1922 Loan	19,200 00	Water 5 Per Cent. 1916 Loan	23,382 97
Funding 1936 Loan	25,400 00	Funding 3½ Per Cent. 1936 Loan	28,689 63
Funding 1936 Loan	500 00	Harford Run 4 Per Cent. 1920 Loan	567 50
Funding 1936 Loan	4,000 00	Public Improvement 3½ Per Cent. 1940 Loan	4,470 00
Funding 1936 Loan	400 00	Consolidated 3½ Per Cent. 1930 Loan	440 00
Public Imp. 1940 Loan	5,400 00	Public Improvement 3½ Per Cent. 1940 Loan	6,050 74
Public Imp. 1940 Loan	600 00	Western Maryland R. R. 4 Per Cent. 1925 Loan	707 95
Public Imp. 1940 Loan	2,600 00	Harford Run 4 Per Cent. 1920 Loan	2,932 47

Public Imp. 1940 Loan	5,000 00	Water 3½ Per Cent. 1943 Loan	5,576 50
Public Imp. 1940 Loan	3,000 00	Western Maryland R R. 3½ Per Cent. 1952 Loan	3,309 92
Public Imp. 1940 Loan	15,000 00	Harford Run 4 Per Cent. 1904 Loan	15,225 00
Public Imp. 1940 Loan	6,800 00	Consolidated 3½ Per Cent. 1930 Loan	7,461 03
Public Imp. 1940 Loan	10,000 00	Water 5 Per Cent. 1916 Loan	12,206 22
Public Imp 1940 Loan	1,500 00	Water 4 Per Cent. 1926 Loan	1,757 95
Public Imp. 1940 Loan	20,000 00	Funding 3½ Per Cent. 1936 Loan	22,595 89
Refunding 1940 Loan	67,000 00	Refunding 3½ Per Cent. 1940 Loan	75,147 57
Refunding 1940 Loan	10,000 00	Funding 3½ Per Cent. 1936 Loan	11,297 94
Conduit 1928 Loan	30,000 00	Conduit 3½ Per Cent. 1928 Loan	32,589 00
Conduit 1922 Loan	10,000 00	Conduit 3½ Per Cent. 1928 Loan	10,863 00
Conduit 1922 Loan	20,000 00	Funding 3½ Per Cent. 1936 Loan	22,595 89
Public Park No. 2	15,000 00	Funding 3½ Per Cent. 1936 Loan	16,946 92
	$957,000 00		$1,077,942 73

STATEMENT No. 3.

Condition of the Sinking Funds December 31, 1903.

General Sinking Fund.

(For the redemption of $7,580,000 of various loans, viz: $350,000 Harford Run 4 Per Cent. 1904 Loan; $1,000,000 Funding 5 Per Cent. 1916 Loan; $280,000 McDonogh Extension 5 Per Cent. 1916 Loan; $250,000 Harford Run 4 Per Cent. 1920 Loan; $200,000 Patterson Park Extension 4 Per Cent. 1920 Loan; $500,000 Paving 4 Per Cent. 1920 Loan, and $5,000,000 Consolidated 3½ Per Cent. 1930 Loan.)

Water 5 Per Cent. 1916 Loan	$33,000 00	
Funding 5 Per Cent. 1916 Loan	18,400 00	
		$51,400 00
Harford Run 4 Per Cent. 1904 Loan	$97,000 00	
Harford Run 4 Per Cent. 1920 Loan	4,900 00	
Paving 4 Per Cent. 1920 Loan	3,000 00	
Patterson Park 4 Per Cent. 1920 Loan	5,000 00	
Water 4 Per Cent. 1926 Loan	500 00	
W. M. R. R. 4 Per Cent. 1925 Loan	35,600 00	
		146,000 00
Conduit 3½ Per Cent. 1922 Loan	$240,000 00	
Conduit 3½ Per Cent. 1928 Loan	40,000 00	
Consolidated 3½ Per Cent. 1930 Loan	39,581 37	
Funding 3½ Per Cent. 1936 Loan	15,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	666,100 00	
Refunding 3½ Per Cent. 1940 Loan	353,000 00	
Water 3½ Per Cent. 1943 Loan	30,000 00	
Four Million 3½ Per Cent. 1945 Loan	778,200 00	
W. M. R. R. 3½ Per Cent. 1952 Loan	100,000 00	
		2,261,881 37
W. M.R. R. 3¼ Per Cent. 1927 Loan		337,800 00
Certificate of deposit, Continental Trust Company of Baltimore, at 3½ per cent. per annum	$2,172,460 74	
Certificate of deposit, Baltimore Trust and Guarantee Company of Baltimore, at 3½ per cent. per annum	400,000 00	
Certificate of deposit, International Trust Company of Baltimore, at 3½ per cent. per annum	300,000 00	
Certificate of deposit, Central Trust Company of Baltimore, at 3½ per cent. per annum	250,000 00	
Certificate of deposit, National Bank of Commerce of Baltimore, at 3½ per cent. per annum	350,000 00	
Certificate of deposit, Marine Bank of Baltimore, at 3½ per cent. per annum	200,000 00	
Certificate of deposit, Third National Bank of Baltimore, at 3½ per cent. per annum	350,000 00	
		4,022,460 74
Real estate from which an annual income of $9,270.36 is derived		154,506 00
Ground rents on city property from which an annual income of $27,281.87 is derived and purchased under Ordinance No. 81, 1881, cost		470,506 09
Cash		314,978 90
		$7,759,533 10

PUBLIC PARK SINKING FUND.

(Ordinance 84, 1891.)

Public Improvement 3½ Per Cent. 1940 Loan	$6,000 00
W. M. R. R. 3¼ Per Cent. 1927 Loan	1,300 00
Cash	921 93
	$8,221 93

PUBLIC PARK SINKING FUND NO. 2.

(For redemption of $892,500 of Four Million 3½ Per Cent. 1945 Loan, issued for purchase of land for park purposes.)

Water 5 Per Cent. 1916 Loan		$3,700 00
Funding 3½ Per Cent. 1936 Loan	$15,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	18,900 00	
Refunding 3½ Per Cent. 1940 Loan	9,500 00	
Four Million 3½ Per Cent. 1945 Loan	45,400 00	
Conduit 3½ Per Cent. 1922 Loan	23,000 00	
		111,800 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		8,000 00
Cash		4,797 76
		$128,297 76

WESTERN MARYLAND R. R. SINKING FUND.

(For redemption of $4,263,000 W. M. R. R. Loans, viz: $684,000 4 Per Cent., due 1925; $1,704,000 3¼ Per Cent., due 1927; $875,000 3½ Per Cent., due 1950, and $1,000,000 3½ Per Cent., due in 1952 The interest derived from the investments of this fund is applied to the payment of the annual interest on the above-named outstanding loans.)

$4,263,000 of certificates of deposit named below are secured by City Stock as collateral.

Consolidated 3½ Per Cent. 1930 Loan	$ 1,700 00	
Public Improvement 3½ Per Cent. 1940 Loan	13,700 00	
Refunding 3½ Per Cent. 1940 Loan	7,000 00	
Four Million 3½ Per Cent. 1945 Loan	14,500 00	
		$36,900 00
Amount brought forward		$36,900 00

WESTERN MARYLAND R. R. SINKING FUND—Concluded.

Amount brought forward		$36,900 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		123,000 00
Certificate of deposit, Continental Trust Co. of Baltimore at 3½ per cent. per annum	$ 65,909 71	
Certificate of deposit, Mercantile Trust and Deposit Co. of Baltimore at 3¼ per cent. per annum	1,979,000 00	
Certificate of deposit, Baltimore Trust and Guarantee Co. at 3¼ per cent. per annum	684,000 00	
Certificate of deposit, International Trust Co of Baltimore at 3¼ per cent. per annum	500,000 00	
Certificate of deposit, Security Storage and Trust Co. of Baltimore at 3¼ per cent. per annum	60,000 00	
Certificate of deposit, American Bonding Co. of Baltimore at 3¼ per cent. per annum	200,000 00	
Certificate of deposit, Third National Bank of Baltimore at 3¼ per cent. per annum	500,000 00	
Certificate of deposit, National Bank of Commerce of Baltimore at 3¼ per cent. per annum	340,000 00	
		4,328,909 71
Cash		10,766 57
		$4,499,576 28

PUBLIC IMPROVEMENT 1940 LOAN SINKING FUND.

(For redemption of $6,000,000 3½ Per Cent. Stock, maturing in 1940.)

Water 5 Per Cent. 1916 Loan		$10,000 00
Harford Run 4 Per Cent. 1904 Loan	$15,000 00	
Harford Run 4 Per Cent. 1920 Loan	2,600 00	
Water 4 Per Cent. 1926 Loan	1,500 00	
W. M. R. R. 4 Per Cent. 1925 Loan	600 00	
		19,700 00
Conduit 3½ Per Cent. 1922 Loan	25,000 00	
Consolidated 3½ Per Cent. 1930 Loan	6,800 00	
Funding 3½ Per Cent. 1936 Loan	20,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	382,300 00	
Refunding 3½ Per Cent. 1940 Loan	50,000 00	
Water 3½ Per Cent. 1943 Loan	5,000 00	
Four Million 3½ Per Cent. 1945 Loan	134,500 00	
W. M. R. R. 3½ Per Cent. 1952 Loan	3,000 00	
		626,600 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		56,000 00
Cash		8,459 31
		$720,759 31

INTERNAL IMPROVEMENT 1928 LOAN SINKING FUND.

(For redemption of $4,850,000 of 3½ Per Cent Stock, maturing in 1928.)

Water 5 Per Cent. 1916 Loan	$128,000 00	
Funding 5 Per Cent. 1916 Loan	8,900 00	
		$ 136,900 00
Harford Run 4 Per Cent. 1920 Loan	7,700 00	
W. M. R. R. 4 Per Cent. 1925 Loan	10,300 00	
		18,000 00
Conduit 3½ Per Cent. 1922 Loan	50,000 00	
Internal Improvement 3½ Per Cent, 1928 Loan	194,000 00	
Consolidated 3½ Per Cent. 1930 Loan	8,000 00	
Funding 3½ Per Cent. 1936 Loan	5,000 00	
Public Imp. 3½ Per Cent. 1940 Loan	478,100 00	
Refunding 3½ Per Cent. 1940 Loan	80,000 00	
Four Million 3½ Per Cent. 1945 Loan	317,500 00	
		1,132,600 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		212,000 00
Cash		10,343 16
		$1,509,843 16

FOUR MILLION 1945 SINKING FUND.

(For redemption of $3,000,000 of 3½ Per Cent. Stock, maturing in 1945.)

Funding 3½ Per Cent. 1936 Loan	$10,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	120,200 00	
Refunding 3½ Per Cent. 1940 Loan	12,000 00	
Four Million 3½ Per Cent. 1945 Loan	156,000 00	
		$298,200 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		10,000 00
Cash		1,397 74
		$309,597 74

FUNDING 1936 LOAN SINKING FUND.

(For redemption of $1,453,300 of 3½ Per Cent. Stock, maturing in 1936.)

Harford Run 4 Per Cent. 1920 Loan		$ 500 00
Conduit 3½ Per Cent. 1922 Loan	$20,000 00	
Consolidated 3½ Per Cent. 1930 Loan	400 00	
Funding 3½ Per Cent. 1936 Loan	25,400 00	
Public Improvement 3½ Per Cent. 1940 Loan	58,300 00	
Refunding 3½ Per Cent. 1940 Loan	20,000 00	
Four Million 3½ Per Cent. 1945 Loan	149,400 00	
		273,500 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		17,000 00
Cash		5,825 07
		$296,825 07

WATER 1922 LOAN SINKING FUND.

(For redemption of $500,000 of 4 Per Cent. Stock, maturing in 1922.)

Water 5 Per Cent. 1916 Loan		$22,600 00
Conduit 3½ Per Cent. 1922 Loan	$38,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	161,700 00	
Refunding 3½ Per Cent. 1940 Loan	15,000 00	
Four Million 3½ Per Cent. 1945 Loan	46,600 00	
		261,300 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		3,000 00
Cash		2,583 36
		$289,483 36

WATER 1916 LOAN SINKING FUND.

(For redemption of $5,000,000 of 5 Per Cent. Stock maturing in 1916.)

Water 5 Per Cent. 1916 Loan	$634,900 00	
Funding 5 Per Cent. 1916 Loan	25,700 00	
		$660,600 00
Conduit 3½ Per Cent. 1922 Loan	83,000 00	
Public Improvement 3½ Per Cent. 1940 Loan	104,200 00	
Refunding 3½ Per Cent. 1940 Loan	117,000 00	
Four Million 3½ Per Cent. 1945 Loan	436,000 00	
W. M. R. R. 3½ Per Cent. 1952 Loan	100,000 00	
		840,200 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		60,900 00
Cash		7,563 17
		$1,569,263 17

WATER 1926 LOAN SINKING FUND.

(For redemption of $1,000,000 of 4 Per Cent. Stock, maturing in 1926.)

Water 5 Per Cent. 1916 Loan	$102,900 00	
Funding 5 Per Cent. 1916 Loan	1,100 00	
		$104,000 00
Water 4 Per Cent. 1926 Loan		11,700 00
Conduit 3½ Per Cent. 1922 Loan	88,000 00	
Consolidated 3½ Per Cent. 1930 Loan	31,600 00	
Public Improvement 3½ Per Cent. 1940 Loan	160,600 00	
Refunding 3½ Per Cent. 1940 Loan	30,000 00	
Four Million 3½ Per Cent. 1945 Loan	72,700 00	
		382,900 00
W. M. R. R. 3¼ per Cent. 1927 Loan		39,300 00
		$537,900 00
Last amount over-invested		987 20
		$536,912 80

CONDUIT 1928 LOAN SINKING FUND.

(For redemption of $80,000 of 3½ Per Cent. Stock, maturing in 1928.)

Conduit 3½ Per Cent. 1928 Loan	$30,000 00
Cash	1,066 08
	$31,066 08

CONDUIT 1922 LOAN SINKING FUND.

(For redemption of $1,000,000 of 3½ Per Cent. Stock, maturing in 1922.)

Conduit 3½ Per Cent. 1922 Loan	$ 131,000 00	
Conduit 3½ Per Cent. 1928 Loan	10,000 00	
Funding 3½ Per Cent. 1936 Loan	20,000 00	
Refunding 3½ Per Cent. 1940 Loan	5,000 00	
Four Million 3½ Per Cent. 1945 Loan	4,000 00	
		$170,00 000
Cash		7,784 74
		$177,784 74

REFUNDING 1940 LOAN SINKING FUND.

(For redemption of $4,300,000 of 3½ Per Cent. Stock, maturing in 1940.)

Conduit 3½ Per Cent. 1922 Loan	$52,000 90	
Funding 3½ Per Cent. 1936 Loan	10,000 00	
Public Imp. 3½ Per Cent. 1940 Loan	20,000 00	
Refunding 3½ Per Cent. 1940 Loan	567,000 00	
Four Million 4½ Per Cent. 1945 Loan	29,000 00	
		$678,000 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		6,000 00
Cash		3,108 48
		$687,108 48

WATER 1943 LOAN SINKING FUND.

(For redemption of $35,000 of 3½ Per Cent. Stock, maturing in 1943.)

Cash	$3,690 50

Recapitulation.

FACE VALUE OF THE SINKING FUNDS.

General Sinking Fund	$7,759,533 10
Public Park Sinking Fund	8,221 93
Public Park Sinking Fund, No. 2	128,297 76
Western Maryland R. R. Sinking Fund	4,499,576 28
Public Improvement 1940 Loan Sinking Fund	720,759 31
Internal Improvement 1928 Loan Sinking Fund	1,509,843 16
Four Million 1945 Loan Sinking Fund	309,597 74
Funding 1936 Loan Sinking Fund	296,825 07
Water 1922 Loan Sinking Fund	289,483 36
Water 1916 Loan Sinking Fund	1,569,263 17
Water 1926 Loan Sinking Fund	536,912 80
Conduit 1928 Loan Sinking Fund	31,066 08
Conduit 1922 Loan Sinking Fund	177,784 74
Refunding 1940 Loan Sinking Fund	687,108 48
Water 1943 Loan Sinking Fund	3,690 50
	$18,527,963 48

STATEMENT No. 4.

ENOCH PRATT FREE LIBRARY FUND, HELD IN TRUST BY THE COMMISSIONERS OF FINANCE, UNDER ORDINANCE No. 64 OF 1888.

Water 5 Per Cent. 1916 Loan	$54,300 00	
Funding Five Per Cent. 1916 Loan	2,500 00	
		$56,800 00
Paving 4 Per Cent. 1920 Loan	62,300 00	
Patterson Park 4 Per Cent. 1920 Loan	195,000 00	
Water 4 Per Cent. 1922 Loan	500,000 00	
W. M. R. R. 4 Per Cent. 1925 Loan	2,100 00	
Harford Run 4 Per Cent. 1920 Loan	900 00	
Water 4 Per Cent. 1926 Loan	1,000 00	
		761,300 00
Consolidated 3½ Per Cent. 1930 Loan	113,200 00	
Internal Improvement 3½ Per Cent. 1928 Loan	13,200 00	
Public Improvement 3½ Per Cent. 1940 Loan	42,700 00	
Four Million 3½ Per Cent. 1945 Loan	37,800 00	
Refunding 3½ Per Cent. 1940 Loan	145,100 00	
		352,000 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		4,000 00
		$1,174,100 00

STATEMENT No. 5.

HORWITZ BENEVOLENT FUND, HELD IN TRUST BY THE COMMISSIONERS OF FINANCE UNDER ORDINANCE No. 7 OF 1888.

Water 5 Per Cent. 1916 Loan	$ 400 00	
Funding 5 Per Cent. 1916 Loan	2,600 00	
		$3,000 00
W. M. R. R. 4 Per Cent. 1925 Loan		300 00
Public Improvement 3½ Per Cent. 1940 Loan	$3,000 00	
Refunding 3½ Per Cent. 1940 Loan	6,400 00	
Four Million 3½ Per Cent. 1945 Loan	1,600 00	
		11,000 00
W. M. R. R. 3¼ Per Cent. 1927 Loan		900 00
Cash		606 95
		$15,806 95

STATEMENT No. 6.

FREDERICK RAINE FUND, HELD BY THE COMMISSIONERS OF FINANCE UNDER ORDINANCE No. 51, 1897.

Public Improvement 3½ Per Cent. 1940 Loan	$400 00

STATEMENT No. 7.

A SCHEDULE OF REAL ESTATE AND GROUND RENTS UPON THE BOOKS OF THE COMMISSIONERS OF FINANCE.

Lessees.	*Location of Lots.*	*Annual Rental.*
Merchants and Miners' Transportation Co.	Nos. 24, 25, 26, 27, 28 and 29 s. s. Block street	$ 910 88
C. S. Maltby Co.	Nos. 5, 6, 7 and 8 n. s. Block street	293 60
Sisters of Mercy	Calvert Street Spring lot	1,000 00
Baltimore and Philadelphia Steamboat Co.	200 feet Pratt street wharf near Light street	3,600 00
Platt & Co.	Old fish house property	1,457 00
Robert E. Davis	Fayette and Arch streets	52 00
Boys' Home Society	Pleasant and Calvert streets	50 00
James Clark Co.	Old City Yard property	497 25
Baltimore Dredging Co.	Old City Yard property	480 00
Harry W. Vogt	1271 Battery avenue	157 50
John G. Huck	Charles and Weyler streets	75 70
Sophia M. Kelly	Nos. 5, 7 and 9 Weyler street	150 00
Aaron Hess	No. 11 Weyler street	33 60
John Mack	No. 13 Weyler street	19 20
William J. Blair	No. 15 Weyler street	26 32
Jacob Steinberger	No. 17 Weyler street	26 32
Ida Young	Nos. 19 and 21 Weyler street	52 64
Esther Gallie	No. 23 Weyler street	26 32
H. Klasmeier	No. 25 Weyler street	25 48
Rudolph Preis	No. 27 Weyler street	26 32
Mary A. Steen	Nos. 31 and 33 Weyler street	52 64
Bernhard Shereswesky	No. 35 Weyler street	19 20
George Wimmer	No. 37 Weyler street	20 32
Strauss Bros.	Nos. 39 and 41 Weyler street	54 49
Margaret Goetze	No. 43 Weyler street	29 60
August Pfeil	No. 45 Weyler street	29 60
Annie A. Derwart, Trus.	No. 49 Weyler street	26 32
August Pfeil	Light and Weyler streets	78 06
Amount carried forward		$9,270 36

(Capitalized at 6 per cent., $154,506.)

Amount brought forward.....				$9,270 36
PURCHASED BY AUTHORITY OF ORDINANCE No. 81, 1881.				
Boys' Latin School.....		Park av., nr. Preston st.	$549 00	
Mayor and City Council		Hollins and Monroe sts.	750 00	
"	"	"	Howard & Little Montgomery streets.....	120 00
"	"	"	Penna. av. & Robert st.	86 00
"	"	"	Frederick and Fairview avenues.....	360 00
"	"	"	Waesche, nr. Fremont..	480 00
"	"	"	Castle street.....	209 25
"	"	"	Hanover and Lee sts.....	210 00
"	"	"	Sharp and West sts.....	570 00
"	"	"	Argyle av., nr. Lanvale st	120 00
"	"	"	Hull and Clement sts...	350 00
"	"	"	Linden av. & Wilson st.	840 00
"	"	"	Charles and Ostend sts.	372 50
"	"	"	Ann and Chase sts.....	501 75
"	"	"	Howard st., opp. Centre	1,000 00
"	"	"	Preston and Eden sts...	80 00
"	"	"	Broadway and Bank st..	200 00
"	"	"	Mosher and Gilmor sts.	757 00
"	"	"	Northeast Market.....	1,200 00
"	"	"	Collington Square.....	960 00
"	"	"	Perkins Spring Square.	2,052 00
"	"	"	Riverside Park.....	3,770 62
"	"	"	Holliday & Fayette sts..	56 00
"	"	"	Lexington and Paca sts.	228 00
"	"	"	Bond and Chew streets.	130 00
"	"	"	Carey st. & Columbia av	385 00
"	"	"	Chappell st., nr. Carey..	630 00
"	"	"	Cross-street Market.....	974 00
"	"	"	Linden av. & Konig st.	1,155 00
"	"	"	Baltimore st., nr. Aisquith.....	300 00
"	"	"	Lombard st., nr. High..	150 00
"	"	"	Rogers av. and Low st..	540 00
"	"	"	East side Woodberry la.	22 50
"	"	"	Ann and Aliceanna sts..	22 50
"	"	"	York road, Waverly.....	75 00
"	"	"	Brunswick st, bet. Frederick and Wilkens avs	61 50
"	"	"	Harlem av. & Monroe st.	480 00
Amounts carried forward.....			$20,747 62	$9,270 36

Amounts brought forward			$20,747 62	$9,270 36
Mayor and City Council.		Eastern av. and Streeper street	1,001 00	
"	"	" Stiles, near Gough	50 00	
"	"	" Lehman and Millington avenues	240 00	
"	"	" Biddle st., nr. Penna. av	1,500 00	
"	"	" Patterson Park ave. and McElderry st	530 00	
"	"	" Francis st., nr. Fulton av.	450 00	
"	"	" Chester and Chew sts	829 75	
"	"	" Penn. av., nr. Dolphin st.	1,147 50	
"	"	" Old City Hall, Hollidayst	306 00	
"	"	" Ramsay and Pulaski sts.	480 00	
				27,281 87
				$36,552 23

(Purchased at a cost of $470,506.09.)

STATEMENT No. 8.

CASH BALANCES OF SINKING FUNDS DECEMBER 31, 1903.

	Dr.	*Cr.*
General Sinking Fund		$314,978 90
Public Park Sinking Fund		921 93
Public Park Sinking Fund, No. 2		4,797 76
Redemption of Five Million 1890 Loan		2,003 45
W. M. R. R. Sinking Fund		10,766 57
Public Imp. 1940 Loan Sinking Fund		8,459 31
Internal Imp. 1928 Loan Sinking Fund		10,343 16
Four Million 1945 Loan Sinking Fund		1,397 74
Funding 1936 Loan Sinking Fund		5,825 07
Water 1922 Loan Sinking Fund		2,583 36
Water 1926 Loan Sinking Fund	$987 20	
Water 1916 Loan Sinking Fund		7,563 17
Conduit 1928 Loan Sinking Fund		1,066 08
Water 1943 Loan Sinking Fund		3,690 50
Horwitz Benevolent Fund		606 95
Conduit 1922 Loan Sinking Fund		7,784 74
Refunding 1940 Loan Sinking Fund		3,108 48
Balance	384,909 97	
	$385,897 17	$385,897 17

STATEMENT No. 9.

Funded Debt December 31, 1903.

Name of Loan.	Rate.	Authority for Issue.	When Redeemable.	Amount.
Harford Run	4 per cent.	Ord. No. 115, 1884	November 3, 1904	$350,000 00
Water	5 per cent.	Ord. No. 65, 1877	July 1, 1916	5,000,000 00
Funding	5 per cent.	Ord. No. 93, 1878	July 1, 1916	1,000,000 00
McDonogh Extension	5 per cent.	Ord. No. 157, 1890	September 1, 1916	280,000 00
Harford Run	4 per cent.	Ord. No. 86, 1879	January 1, 1920	250,000 00
Patterson Park Extension	4 per cent.	Ord. No. 120, 1883	October 1, 1920	200,000 00
Paving	4 per cent.	Ord. No. 140, 1880	November 1, 1920	500,000 00
Water	4 per cent.	Ord. No. 91, 1882	November 1, 1922	500,000 00
Conduit	3½ per cent.	Ord. No. 120, 1896	January 1, 1922	1,000,000 00
Western Maryland Railroad	4 per cent.	Ord. No. 71, 1882	July 1, 1925	684,000 00
Water	4 per cent.	Ord. No. 82, 1886	November 1, 1926	1,000,000 00
Western Maryland Railroad	3¼ per cent.	Ord. No. 11, 1886	January 1, 1927	1,704,000 00
Conduit	3½ per cent.	Ord. No. 87, 1902	January 1, 1928	80,000 00
Internal Improvement	3½ per cent.	Ord. No. 98, 1888	July 1, 1928	4,850,000 00
Consolidated	3½ per cent.	Ord. No. 58, 1890	July 1, 1930	5,000,000 00
Funding	3½ per cent.	Ord. No. 112, 1896	July 1, 1936	1,453,300 00
Public Improvement	3½ per cent.	Ord. No. 100, 1892	January 1, 1940	6,000,000 00
Refunding	3½ per cent.	Ord. No. 32½, 1898	January 1, 1940	4,300,000 00
Water	3½ per cent.	Ord. No. 86, 1902	January 1, 1943	35,000 00
Four Million	3½ per cent.	Ord. No. 137, 1894	March 1, 1945	3,892,500 00
W. M. R. R. Refunding	3½ per cent.	Ord. No. 18, 1898 Ord. No. 32, 1900	March 1, 1950	875,000 00
W. M. R. R. Refunding	3½ per cent.	Ord. No. 18, 1898 Ord. No. 32, 1900	January 1, 1952	1,000,000 00
Stock due in 1860	6 per cent.		Unred'm'd, no int. allow'd	482 00
Water Stock due in 1875	6 per cent.		Unred'm'd, no int. allow'd	270 00
Consol. Stock due in 1890	6 per cent.		Unred'm'd, no int. allow'd	627 50
Five Mill'n Stock due in 1890	6 per cent.		Unred'm'd, no int. allow'd	2,003 45
Water Stock due in 1894	5 per cent.		Unred'm'd, no int. allow'd	700 00
Jones' Falls Stock due in 1900	5 per cent.		Unred'm'd, no int. allow'd	400 00
W. M. R. R. Stock due in 1902	6 per cent.		Unred'm'd, no int. allow'd	6,200 00
				$39,964,482 95

Name of Loan.	Rate of Interest.	When Payable.	Where Payable.
Patterson Park 1920	4 Per Cent.	January, April, July, October	Citizens National Bank.
Conduit 1922	3½ "	January and July	Citizens National Bank.
Conduit 1928	3½ "	January and July	Citizens National Bank.
Western Maryland Railroad 1927	3½ "	January and July	Citizens National Bank.
Consolidated 1930	3½ "	January and July	Citizens National Bank.
Funding 1936	3½ "	January and July	National Mechanics Bank.
Water 1916	5 "	May and November	National Mechanics Bank.
Water 1922	4 "	May and November	National Mechanics Bank.
Water 1926	4 "	May and November	National Mechanics Bank.
Water 1943	3½ "	January and July	National Mechanics Bank.
Four Million 1945	3½ "	March and September	National Exchange Bank.
McDonogh Extension 1916	5 "	March and September	National Exchange Bank.
Refunding 1940	3½ "	January and July	National Exchange Bank
Internal Improvement 1928	3½ "	January and July	Farmers and Merchants National Bank.
Harford Run 1904	4 "	January and July	Farmers and Merchants National Bank.
Harford Run 1920	4 "	January and July	Farmers and Merchants National Bank.
Paving 1920	4 "	May and November	Farmers and Merchants National Bank.
Funding 1916	5 "	May and November	Farmers and Merchants National Bank.
Western Maryland Railroad 1950	3½ "	March and September	Farmers and Merchants National Bank.
Public Improvement 1940	3½ "	January and July	Merchants National Bank.
Western Maryland Railroad 1952	3½ "	January and July	Merchants National Bank.
Western Maryland Railroad 1925	4 "	January and July	Merchants National Bank.

ANNUAL REPORT

— OF THE —

COMPTROLLER

— OF —

BALTIMORE CITY

— FOR THE —

Fiscal Year Ending December 31, 1903.

IN ACCORDANCE WITH THE

UNIFORM SYSTEM OF ACCOUNTING

— OF THE —

NATIONAL MUNICIPAL LEAGUE.

BALTIMORE, MD.
WM. J. C. DULANY CO.,
PUBLIC PRINTER.

1904.

COMPTROLLER'S DEPARTMENT.

Comptroller:
GEO. R. HEFFNER.

Deputy Comptroller:
JULIUS W. FREEMAN.

Chief Clerk:
HENRY C. HINES.

Assistant Clerk: H. L. P. WOOLF.

Auditors: ALBERT M. COLLINS, JOHN R. BAILEY.

License Detective: C. H. S. BRANNAN.

Stenographer: WILLIAM M. JORDAN.

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DEPARTMENT OF FINANCE,
SUB-DEPARTMENT,

COMPTROLLER.

CITY HALL.

BALTIMORE, MD., January 11, 1904.

To the Honorable Mayor and City Council of Baltimore:

GENTLEMEN:

The Report of this Department for the year 1903, I herewith respectfully present, having continued the compilation under the "Uniform System of Municipal Accounting," approved by the National Municipal League, which has met with universal approval of our citizens, as well as the leading accountants of the day. Owing to the depletion of the Water Board receipts, caused by the reduction in water rents, it closed the year without a cent to the Sinking Funds. By close watching, with the co-operation of the City Collector, we paid to the Finance Commissioners a general surplus of but $8,157.40 out of appropriations, etc., amounting to $10,146,555.93, after carrying forward to 1904, appropriation accounts amounting to $105,508.72 against which there are liens on contracts, also receipts of $30,141.71 not estimated in 1903. The provision of the Charter that the "surplus shall be passed to the Commissioners of Finance to be credited to the General Sinking Fund," I think should be amended that such surplus should be carried to the next ensuing year and applied on the tax levy reducing it thereby and avoiding in a measure as at present double taxation. The receipts of Harbor Masters show an increase of $6,163.99, which should and will show a material increase as soon as the City's right to wharfage on the Dock Street is established and now in course of adjustment; and the Markets will show an increase over 1902, although not in this report, it covering but 11 months. With the co-operation of the respective departments as specified in the authority ordinances, this Department has purchased the following lots:

Engine Company No. 24, Patterson Park Avenue near Orleans street	$ 3,500 00
Engine Company No. 25, Gold and McCulloh streets.	3,020 00
Addition to School No. 53, St. Paul street	11,713 41
Nos. 124 and 126 N. High street for schools	5,000 00
Addition to Bay View Asylum	49,666 97

I would respectfully recommend that all the laws governing the markets, many of which have become obsolete, impracticable and void, be repealed and re-enacted with simpler and up-to-date laws, meeting with the views of the great body of market men, as well as protecting fuller the interest of our citizens. Centre Market, which, owing to the change in our City's population and the rapid transit system of the day, has and is suffering from lack of trade. I would recommend that the portion between Water and Lombard streets, by ordinance, be changed into a wholesale fish market, doing away with the unsightly and unhealthy street-stands adjoining the Falls from Concord street, and that the few remaining stall-owners in the portion named be moved into and under the Institute. I would also request that Ordinance No. 166, 1896, for Stockholm street sewer, and Ordinance No. 179, 1899, for Lee street sewer, be repealed; that the balances of $29,851.70 of the Six Million 1940 Loan and $9,928.84 of the Five Million 1928 Loan and Six Million 1940 Loan can be carried back to their respective loans and utilized for other purposes.

In the matter of public improvements—such as sewers, schoolhouses, street paving, etc., I believe, that owing to the sale of the W. M. R. R. and the care bestowed upon the City's finances in the past few years, resulting in the rapid accumulation of the Sinking Fund, that Baltimore is now at a point to take its proper position in the progressive march of our sister cities, and I heartily approve of the same, if the proper restrictions are thrown around the expenditure of money used in such works; that the citizens may be assured of value received for every penny expended and that it may not be squandered.

I cannot but add my testimony to the beneficient results of the New Charter in safe-guarding the City's interests and my opposition to any change that might weaken or destroy its worth.

This report treats fully with all departments in gross and detail.

I am indebted to the departments for their hearty co-operation and would hereby record my thanks and appreciation for the same.

Very truly yours,

GEO. R. HEFFNER,
Comptroller.

THE

RECEIPTS, APPROPRIATIONS AND EXPENDITURES

OF THE

CITY OF BALTIMORE, MARYLAND,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1903.

SCHEDULES

GIVING THE

RECEIPTS, APPROPRIATIONS AND EXPENDITURES

OF THE CITY OF BALTIMORE FOR THE FISCAL YEAR 1903, ARRANGED ACCORDING TO THE "UNIFORM SYSTEM" OF THE NATIONAL MUNICIPAL LEAGUE.

The first important feature of these schedules is the arrangement of the summaries or statements of totals. These follow in order of importance, and precede the detailed statements in every case, *i. e.:* First appear consolidated, summary statements. Schedule A–I, B–I, etc.

Then follow subsidiary detailed statements of the items in the first schedule. Then more detailed statements of the items in the secondary schedules, and so on down to the lesser items of the accounts.

The next important feature of the League's system is the distinction between "Revenue and Expense" accounts, which are statements of the receipts and expenditures of the fiscal year, and the "Balance Sheet" accounts, which are statements of condition of the city's assets and liabilities at the end of the fiscal year. These are the usual distinctions of commercial bookkeeping.

The third important feature is the emphatic distinction between "ordinary" revenue and expense, and "extraordinary" revenue and expense. The former relates only to the income of the city from ordinary sources (excluding sales of bonds and other capital accounts), and to the expenditure of the city for ordinary running expenses, *i. e.:* For operation and maintenance. The latter—extraordinary—relates only to income from exrtaordinary sources like borrowed money, etc., and to expenditures for permanent construction or other capital outlay.

The fourth important feature, and one which is practically the creation of the League, is the arrangement of the totals and afterward the details of the departments' accounts, not in alphabetical order, but in an order based upon the general purpose or function of each department or division of the municipal government.

Referring to the attached Schedules, A–I gives the consolidated summary of the total receipts and expenditures for the fiscal year, including everything which enters into the debts and credits of the year, and also the balances of cash on hand at the beginning and at the end of the year.

Schedule A–II gives the large items which together make up the total receipts item in the first schedule, and these figures are arranged to accord very closely with the plan adopted by Carroll D. Wright, U. S. Commissioner of Labor, in the publications of his department in relation to the "Statistics of Cities" of 30,000 population and over.

Schedule A–III gives the corresponding items which make up the total of the expenditures in the first schedule.

Schedule A-IV divides the total revenues and expenditures into distinct categories, "ordinary," "extraordinary," "trust funds," and "temporary accounts."

Schedules A–V takes up a more detailed study of the "ordinary" and "extraordinary" items arranged in groups according to general purposes or functions.

Schedule A–VI expands the items of the previous schedule in still more detailed figures, and gets down to the revenues, appropriations and expenses by departments and divisions, still grouped according to the League's system.

Schedule A–VII takes up the budgetary questions, balances forward, appropriations, additions, transfers to and from, expenditures and balances remaining, with the departments still grouped as before, and finally:—

Schedule A–VIII consists of the ultimate details of each department's accounts so far as the Auditor's or Comptroller's report will deal with them, taken up in order separately, and with sufficient space given to each so that all the important divisions of expenditure, viz.:—salaries, expenses, rent, lighting, printing, etc., of each can be completely set forth.

It will be seen that the schedules progress consistently and steadily from the gross statements to the details, each schedule being an amplification of the preceding one and in complete harmony with it, and all arranged upon a definite, consistent and uniform system.

SCHEDULE A—I.

Revenue and Expense of the Fiscal Year 1903.

Consolidated Statement.

Total Receipts of City from all sources		$11,170,268 67
Balance at beginning of the year:		
Register's Department	$644,041 72	
Finance Commissioners	90,431 11	
		734,472 83
Total		$11,904,741 50
Total expenditures of City for all purposes		11,146,732 41
Balance at end of the year:		
Register's Department	$373,099 12	
Finance Commissioners	384,909 97	
		$758,009 09

SCHEDULE A II.

Total Revenue (Receipts) of the Fiscal Year by Sources.

Real and Personal Property	$6,196,048 04
Liquor Licenses	445,594 70
Other License	81,533 09
Fines, (Magistrates and Bailiffs)	47,920 07
Inspections, (Gas Meters, Weights and Measures)	8,050 88
Private Paving and Inspection	32,513 95
Permits for Buildings, &c	6,798 34
Franchises	28,945 57
Water Department Rents	865,735 00
Quarantine, Tonnage Dues	15,146 86
Street Railway, Park Tax	347,625 94
Docks and Wharves	44,247 51
Schools, State Fund and Free Text Books	335,542 99
Markets and Halls	61,018 13
Telephone Conduits and Subways	34,076 19
Bath Houses, Bathing Pools and Beaches	5,981 55
Interest on Deposits, Delayed Taxes, etc	116,595 17
Board of Insane	11,554 55
Opening Streets	24,786 50
Paving Streets	8,886 16
Miscellaneous	878,560 39
Total	$9,597,161 58

Commissioners of Finance:

Trust Funds	50,590 26
Sinking Funds, Interest on Deposits	3,715 97
" " Rentals	37,214 56
" " Premium on Bonds	11,537 72
" " Interest on Stock	602,890 59
" " Md. Trust Co., Certificates of Deposit	300,000 00
" " General Surplus, 1902	12,511 14
" " Sale 5 to 12 President Street	32,083 33
" " Tax Levy Provision	505,182 22
" " Park Board	17,381 30
Grand Total Revenue (Receipts) from all sources (per Schedule A—I)	$11,170,268 67

Baltimore has two separate and distinct accounts, the Register's Department (General Treasury) and Finance Commission.

SCHEDULE A—III.

Expenditures Arranged According to General Purposes.

City Departments	$6,718,022 68
State Departments:	
Supervisors of Elections	167,400 83
Police Department	1,010,738 41
Courts, &c	184,070 89
Liquor License Commission	14,119 45
Interest on City Debt	1,501,018 00
Ground Rents on City Property	50,964 08
State Tax on City Loans	22,514 41
Refunding 1900 Taxes	13,505 54
Opening Streets	14,879 14
Paving Streets	36,576 61
Private Paving and Inspection	31,042 01
Tax Bailiffs	42,582 62
Inspector of Weights and Measures	5,286 62
Miscellaneous	55,382 89
Total	$9,868,104 18
Commissioners of Finance:	
Trust Funds	50,014 00
Sinking Funds, Interest W. M. R. R.	148,365 00
" " Purchase of Stocks	777,942 73
" " Reinvestment Western Maryland Railroad Purchase Money	300,000 00
Expenses Finance Commission	1,606 50
Debt Redemption:	
Bonded Debt, City Hall, 1902	700 00
Grand Total Expenditures for all purposes (per Schedule A-I)	$11,146,732 41

For complete details of both receipts and expenditures see Schedules A—VI and A—VIII.

SCHEDULE A—IV.

General Exhibit of Revenues, Appropriations and Expenditures of the Fiscal Year 1903.

Separated under the four heads, "Ordinary," "Extraordinary," "Trust Funds," and "Temporary Accounts."

	Revenues.	Appropriations.	Expenditures.
ORDINARY..... (Schedule A—VI.)	$ 9,356,516 23	$ 8,411,709 21	$ 8,693,171 37
EXTRAORDINARY..... (Schedule A—VI.)	820,822 73	1,203,707 62	1,461,207 59
TRUST FUNDS, ETC..... (Schedule A—VI.)	50,590 26	4,258 00	50,014 00
TEMPORARY ACCOUNTS... (Schedule A—VI.)	942,339 45	526,881 10	942,339 45
Totals.....	$11,170,268 67	$10,146,555 93	$11,146,732 41

Ordinary has relation only to the current revenues and "running expenses" (operation and maintenance), and does not include receipts or payments on account of loans, nor on account of permanent construction or other capital accounts.

Extraordinary has no relation to current revenue or running expenses, but does include receipts and payments on account of loans, and for permanent construction and other capital accounts.

Trust funds include all receipts and payments of the city when acting as trustee or as agent for funds, trusts, special deposits, etc., which cannot be used except for particular and specified purposes.

Temporary accounts include all receipts and payments of the city which are simply journal items, or items paid in, temporarily held and paid out again.

SCHEDULE A—V.

Exhibit of Revenues, Appropriations and Expenditures, Divided into Ordinary and Extraordinary, and Grouped According to Functions.

	Receipts.		Appropriations		Expenditures.	
	Ordinary.	Extraordinary.	Ordinary.	Extraordinary.	Ordinary.	Extraordinary.
1. General Government	$ 14,633 36		$ 490,818 69		$ 494,843 30	
2. Public Safety (Protection of Life, Health and Property)	24,105 11		2,081,767 38	70,216 09	2,060,550 66	62,048 21
3. Public Charity and Correction	20,314 24		493,990 00	50,000 00	469,442 97	52,205 57
4. Public Works	59,475 96	423 00	1,078,773 17		1,227,085 95	29 75
5. Public Industries	1,035,923 31	115,000 00	1,006,573 00	860,300 22	1,059,258 01	166,963 98
6. Public Education, Recreation and Art	359,999 06		1,724,453 11	223,191 31	1,786,001 33	251,345 85
7. Public Debt	886 72	704,823 47	26,000 00		22,514 41	928,614 23
8. Interest	685,730 06	576 26	1,511,869 96		1,501,081 46	
9. Taxation	7,156,024 67		1,721 90		72,393 28	
10. Sundries	187,171 23	805,182 22	526,881 10		692,353 45	300,000 00
Totals	$9,544,263 72	$1,626,004 95	$8,942,848 31	$1,203,707 62	$9,385,524 82	1,761,207 59

SCHEDULE A—VI.

1. General Government.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
11. Executive;					
Salaries, Mayor's office			$10,400 00	$10,400 00	
Expenses, " "			3,100 00	3,093 95	
			$13,500 00	$13,493 95	
12. Legislative:					
Salaries, City Council			$47,750 00	$47,569 15	
Expenses, "			11,343 45	11,256 01	
			$59,093 45	$58,825 16	
13. Law:					
Salaries, City Solicitor			$11,300 00	$11,104 80	
Expenses, "			1,500 00	1,496 10	
Stenographer, etc			2,500 00	2,428 88	
Judgments and suits	$493 06		12,200 00	12,572 72	
	$493 06		$27,500 00	$27,602 50	

14. FINANCE:					
Salaries, Comptroller's Department			$12,600 00	$12,600 00	
Expenses, " "			1,200 00	923 88	
Salaries, Register's "			10,700 00	10,700 00	
Expenses, " "			450 00	246 18	
Salaries, City Collector			32,500 00	32,500 00	
Expenses, "			2,300 00	2,300 00	
Salaries, Appeal Tax Court			23,200 00	22,815 00	
Expenses, " " "			1,675 00	1,675 00	
Register's Department (city seals)	$10 05				
	$10 05		$84,625 00	$83,760 06	
15. ELECTIONS:					
Salaries, Supervisors, etc			$15,000 00	$14,808 38	
Expenses "			4,133 00	3,987 24	
Registration, Spring			16,357 00	15,183 12	
Primary Election, Spring			19,425 00	19,414 41	
Election, Spring			20,675 00	20,504 16	
Registration, Fall			55,804 00	55,414 47	
Primary Election, Fall			20,925 00	20,907 92	
Election, Fall					
Candidates' assessments, etc	$6,580 00		17,879 00	17,181 13	
	$6,580 00		$170,198 00	$167,400 83	
16. PRINTING:					
Salaries, City Librarian			$ 3,150 00	$ 3,087 50	
Expenses, "			14,774 83	14,737 83	
Advertising Laws			2,000 00	1,996 84	
City Librarian (Codes, etc.)	$81 50				
	$81 50		$19,924 83	$19,822 17	

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
17. City Hall and Public Buildings:					
Salaries, City Hall			$14,820 00	$14,807 91	
Expenses, "			8,950 00	8,950 00	
Salaries, " Annex			2,250 00	2,250 00	
Expenses, " "			4,300 00	4,300 00	
Salaries, Court House			33,565 00	33,552 34	
Expenses, "			17,250 00	17,250 00	
Lavatory for women, City Hall			1,000 00	1,000 00	
Old material	$68 85				
Transferred from 1902:					
Mural decorations, New Court House				3,300 00	
City Hall, Expenses				1,927 94	
" Annex, Expenses				313 60	
	$68 85		$82,135 00	$87,651 79	
18. Miscellaneous:					
Salaries, Liquor License Commission			$11,000 00	$10,199 95	
Expenses, " " "			3,919 50	3,919 50	
Salaries, Topographical Survey			6,090 00	5,790 00	
Expenses, " "			180 00	71 51	
Expenses, Board of Estimates			1,000 00	957 11	
Expenses, " Public Improvements			600 00	503 25	
Salaries, Municipal Statistician			1,500 00	1,500 00	

Expenses, Municipal Statistician	$ 1 50		2,500 00	1,372 25	
Municipal Telephone Exchange	1,050 40		6,993 00	5,721 77	
Car tickets	6,246 75			6,251 50	
Topographical Survey (maps, etc.)	101 25				
Contingent Fund			59 91		
	$7,399 90		$33,842 41	$36,286 84	
Total General Government	$14,633 36		$490,818 69	$494,843 30	

2. Public Safety.

21. Police;					
Salaries			$944,004 00	$937,423 58	
Expenses			67,335 00	67,334 98	
Salaries, Police Examiners			5,500 00	5,500 00	
Expenses, " "			682 00	479 85	
			$1,017,521 00	$1,010,738 41	
22. Fire Department:					
Salaries			$386,560 00	$386,256 04	
Expenses	$2 86		114,410 00	114,412 86	
Salaries and equipping new Engine Company No. 25			18,580 00	18,580 00	
Water for fire plugs at Carroll			450 00	450 00	
Equipping Engine Company No. 24			15,000 00	15,000 00	
Salaries, " " " 24			5,300 00	4,849 13	
Building Engine House No. 23			11,000 00		$11,000 00
" Truck House No. 7			1,020 59		1,014 56
Lot and building New Engine Co. No. 25			30,000 00		26,220 03
" " " " " " " " 24			20,000 00		4,515 47
Reserve No. 11 Truck House			1,000 00		1,000 00
Old material	2,322 36				
Transferred from 1902:					
Building Engine House No. 23					$9,222 07
" Truck " " 7					4,025 51
	$2,325 22		$603,320 59	$539,548 03	$56,997 64

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
23. Courts:					
Salaries, Criminal Court	.....	.....	$13,500 00	$13,500 00	.....
Expenses, " "	.....	.....	72,900 00	65,746 99	.....
Salaries, Baltimore City Court	.....	.....	7,000 00	6,250 00	.....
Expenses, " " "	.....	.....	15,718 75	12,996 15	.....
Salaries, Court of Common Pleas	.....	.....	8,000 00	8,000 00	.....
Expenses, " " "	.....	.....	13,746 25	10,393 81	.....
Salaries, Superior Court	.....	.....	7,420 00	7,420 00	.....
Expenses, " "	.....	.....	12,767 90	12,267 42	.....
Salaries, Circuit Court	.....	.....	3,900 00	3,900 00	.....
Expenses, " "	.....	.....	600 00	478 70	.....
Salaries, Circuit Court No. 2	.....	.....	3,900 00	3,900 00	.....
Expenses, " " " 2	.....	.....	400 00	300 75	.....
Salaries, Orphans' Court	$100 00	.....	10,016 00	10,052 00	.....
Expenses, " "	.....	.....	100 00	86 65	.....
Salaries, Juvenile Court	.....	.....	3,015 95	3,015 95	.....
Expenses, " "	.....	.....	865 00	865 00	.....
Salaries, Supreme Bench	.....	.....	4,500 00	4,477 76	.....
Expenses, " "	.....	.....	630 00	396 05	.....
Magistrates	.....	.....	19,850 00	19,813 66	.....
Fines	5,337 45	.....	.....	210 00	.....
Removed cases	805 94	.....	.....	.....	.....
	$6,243 39	.....	$198,829 85	$184,070 89	.....

24. Health Department.					
Salaries			$57,836 00	$57,760 56	
Expenses			21,992 91	21,992 91	
Salaries, Quarantine			11,105 00	11,101 00	
Expenses, "	$ 4 20		5,850 00	5,854 20	
Coroners			9,000 00	9,000 00	
Tonnage	15,146 86				
Birth and death transcripts	227 00				
Quarantine barracks			7,195 50		$5,050 57
R. J. Biggs & Co., refund			85 62	85 62	
	$15,378 06		$113,065 03	$105,794 29	$5,050 57
25. Inspection of Buildings.					
Salaries			$24,380 00	$24,374 53	
Expenses			500 00	500 00	
Repairs to city property, consolidated			133,567 00	133,567 00	
Sanitary and other improvements			59,400 00	59,400 00	
Emptying cess-pools			500 00	500 00	
Livery and transportation			900 00	900 00	
			$219,247 00	$219,241 53	
26. Miscellaneous.					
Removing dangerous walls	$158 44			$1,157 51	
	$158 44			$1,157 51	
Total Public Safety	$24,105 11		$2,151,983 47	$2,060,550 66	$62,048 21

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
31. Hospitals.					
City patients in hospitals	.....	.....	$62,000 00	$59,551 00	.....
	.....	.....	$62,000 00	$59,551 00	.....
32. Insane.					
Care of Insane	.....	.....	$127,000 00	$126,948 13	.....
Board of Insane	$11,554 55	.....	.....	.....	.....
	$11,554 55	.....	$127,000 00	$126,948 13	.....
33. Houses for Children, Aged, Deaf, Dumb, Blind, Etc.:					
Destitute and neglected children	.....	.....	$35,000 00	$31,324 88	.....
	.....	.....	$35,000 00	$31,324 88	.....
34. Workhouses, Almshouses:					
Salaries, Supervisors of City Charities	.....	.....	$6,500 00	$6,371 67	.....
Expenses, " " "	.....	.....	1,000 00	822 98	.....
Salaries, Bayview Asylum	$ 0 67	.....	24,100 00	23,445 26	.....
Expenses, " "	26	.....	98,400 00	87,599 32	.....
Bayview Asylum, board and old material	1,058 26	.....	.....	.....	.....
Purchase Hardesty land	.....	.....	50,000 00	.....	$49,666 97
	$1,059 19	.....	$180,000 00	$118,239 23	$49,666 97

35. Lodging Houses:					
Friendly Inn			$1,000 00	$912 40	
			$1,000 00	$912 40	
36. Prisons and Reformatories:					
Jail, salaries			$32,080 00	$31,887 69	
Jail, Expenses	$10 00		22,000 00	22,001 84	
Transportation to House of Correction			500 00	379 52	
Reformatories			74,500 00	68,653 96	
Board and old material	7,678 10				
Transferred from 1902:					
Addition to Jail Hospital					$2,538 60
Female House of Refuge				996 40	
	$7,688 10		$129,080 00	$123,919 41	$2,538 60
37. Miscellaneous:					
Dispensary service			$7,850 00	$6,912 86	
Transportation of poor to their homes	$12 40		800 00	375 06	
Pension Account, W. H. War			260 00	260 00	
" " Ida E. O'Keefe			400 00	400 00	
" " M. Franke, widow			300 00	300 00	
" " Fannie E. Schaeffer			300 00	300 00	
	$12 40		$9,910 00	$8,547 92	
Total Public Charity and Correction	$20,314 24		$543,990 00	$469,442 97	$52,205 57

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
41. Administration:					
Salaries, City Engineer			$28,680 00	$28,679 82	
Expenses, "	$7 50		2,700 00	2,688 77	
Salaries, Com'rs for Opening Streets			6,900 00	6,895 17	
Expenses, " "			172 00	29 63	
Salaries, Supt. of Lamps and Lighting			12,548 00	12,512 67	
Expenses, " " "			300 00	253 43	
Salaries, Com'rs of Street Cleaning			16,200 00	16,175 82	
Expenses, " "			1,100 00	1,063 41	
Salaries, Harbor Board			5,200 00	5,200 00	
Expenses, "			500 00	480 80	
	$7 50		$74,300 00	$73,979 52	
42. Opening and Grading Streets:					
Opening streets			$4,507 57	$14,879 14	
Assessments for opening	$8,954 45				
United Railways and Electric Co	171 32				
Circuit Court No. 2	1,739 77				
Old material	50 00				
	$10,915 54		$4,507 57	$14,879 14	

43. STREET PAVING:					
Paving streets, by assessment	$8,886 16		$ 706 65	$36,576 61	
Paving and repaving cross streets			7,500 00	7,500 00	
Footway crossings			6,000 00	5,745 79	
Paving in front of city property			3,000 00	2,249 94	
Repairs roads, streets, etc	26 88		181,450 00	181,476 88	
Private paving and inspection	32,513 95			31,042 01	
Pavement, School No. 69			650 00	289 34	
O. W. Connet			100 00	100 00	
Transferred from 1902:					
Paving certificates				485 51	
Grading and kerbing North Calvert st			81 63	795 76	
Grading and kerbing Twenty-ninth st				2,558 24	
Widening North avenue at Peck's Run				1,593 17	
Paving Fulton avenue				18,423 84	
Paving East North avenue	1,539 02			25,315 96	
Paving Warren avenue				18,715 69	
Paving McCulloh street				3,212 87	
Paving North ave., near Pennsylvania ave.				2,497 92	
Paving and repaving cross streets				323 58	
Footway crossings				88 99	
Paving in front of city property				2,261 85	
Paving St. Paul st., North ave. to Twenty-fifth st				1,110 18	
Sale of old material	1,711 55			20 00	
	$44,677 56		$199,488 28	$342,384 13	
44. STREET CLEANING:					
Street carts and men			$ 86,366 50	$ 86,348 50	
Sweepers and scrapers			84,376 24	84,361 96	
Sweeping machines, sprinklers, etc			25,650 00	25,636 09	
Tools, repairs, etc			2,697 26	2,696 62	
Sale of dirt	$960 10				
	$960 10		$199,090 00	$199,043 17	

4. Public Works—Concluded.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
45. Street Lighting:					
Gas and maintenance	.....	.....	$137,208 45	$137,205 43	.....
Electric lights	.....	.....	158,548 28	158,510 22	.....
Naphtha lamps and maintenance	.....	.....	28,084 38	25,671 29	.....
Special illumination public buildings	.....	.....	25,000 00	24,832 35	.....
Inspection of gas meters	$2,764 26	.....	.....	50 34	.....
Transferred from 1902:					
Naphtha lamps and maintenance	.....	.....	.....	278 47	.....
	$2,764 26	.....	$348,841 11	$346,548 10	.....
46. Garbage Collection and Disposal:					
Removal of garbage	.....	.....	$147,929 95	$147,767 95	.....
" " 1902 Deficiency	.....	.....	7,273 76	7,273 76	.....
Forfeiture of contract	$100 00	.....	.....	.....	.....
	$100 00	.....	$155,203 71	$155,041 71	.....
47. Sewers and Sewerage Disposal:					
Cleaning sewers and inlets	.....	.....	$11,466 00	$11,457 43	.....
Improvement in and addition to Drainage System	$51 00	.....	7,000 00	7,051 00	.....
Repairs to sewers	.....	.....	24,500 00	23,639 59	.....
Sunwalt Run Culvert	.....	.....	1,400 00	1,400 00	.....

Sewer, School No. 69	.....	.....	$4,251 50	$3,444 50	.....
Repairing drain in Lipps' lane	.....	.....	160 00	.....	.....
Transferred from 1902:					
Repairs to sewers	.....	.....	.....	1,191 97	.....
Improvement in and addition to Drainage System	.....	.....	.....	169 37	.....
Ogier's Run Sewer	.....	.....	.....	33 08	.....
	$51 00	.....	$48,777 50	$48,386 94	.....
48. Bridges:					
Maintenance of bridges	.....	.....	$35,835 00	$35,541 58	.....
" Block street bridge	.....	.....	1,350 00	1,350 00	.....
" Light " "	.....	.....	7,880 00	7,870 36	.....
	.....	.....	$45,065 00	$44,761 94	.....
49. Miscellaneous:					
Maintenance property yard	.....	.....	$1,500 00	$1,469 30	.....
Insurance City property	.....	.....	1,500 00	265 00	.....
Commission widening Light street	.....	.....	500 00	327 00	.....
Sale of lot, Elm and Mosher streets	.....	$423 00	.....	.....	$29 75
	.....	$423 00	$3,500 00	$2,061 30	$29 75
Total Public Works	$59,475 96	$423 00	$1,078,773 17	$1,227,085 95	$29 75

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
51. Water Works:					
Salaries, Water Engineer's Department..	.....	.....	$ 85,730 00	$84,157 13	.....
Expenses, " " ..	$ 28 14	.....	362,700 00	353,297 70	.....
Meters.....	5,737 82	.....	.....	12,733 19	.....
Salaries, Collector of Water Rents and Licenses.....	.....	.....	22,600 00	22,596 50	.....
Expenses, Collector of Water Rents and Licenses.....	.....	.....	387,511 00	381,049 51	.....
New storage house, Gay street	.....	.....	9,000 00	.....	$ 6,213 22
Purchase of land and construction of reservoir	.....	.....	350,000 00	.....	141 90
Extension, East Jones' Falls.....	.....	.....	70,000 00	.....	33,902 40
" West "	.....	.....	225,000 00	.....	673 09
Water rents, etc.....	857,991 52	.....	.....	923 45	.....
" " 1904.....	7,743 48	.....	.....	.....	.....
Loan 1943.....	.....	$35,000 00	.....	.....	.....
Transferred from 1902:					
Water Engineer, expenses.....	.....	.....	.....	4,492 15	.....
Dredging Loch Raven.....	.....	.....	.....	26,508 79	.....
New storage house	.....	.....	.....	.....	21,596 02
	$871,500 96	$35,000 00	$1,512,541 00	$885,758 42	$62,526 63

52. CITY REAL ESTATE:					
Ground rents on city property			$51,000 00	$50,964 08	
Rents from city property	$3,498 07			36 61	
	$3,498 07		$51,000 00	$51,000 69	
53. MARKETS:					
Salaries, Assistant Market Masters			$6,400 00	$6,400 00	
Expenses, " " "				4,414 20	
Market receipts	$59,676 63				
Hose for various markets			800 00	678 96	
Market hall rentals	1,341 50				
Expenses of halls				373 97	
	$61,018 13		$7,200 00	$11,867 13	
54. DOCKS AND WHARVES:					
Repairs to wharves			$ 5,000 00	$ 4,312 28	
Dredging harbor			49,382 00	49,381 93	
Iceboats	$290 00		14,680 00	14,970 00	
Removal of ashes			900 00	681 02	
Removal of floating matter			1,350 00	1,322 16	
Building shed on Bowley's wharf			2,034 00	1,439 31	
Old material	6 00				
Wharfage	44,247 51			9,386 27	
Transferred from 1902:					
Iceboat "Annapolis," balance State appropriation	5,000 00			5,274 05	
Repairs of wharves				1,152 44	
	$49,543 51		$73,346 00	$87,919 46	

5. Public Industries—Concluded.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
55. Subways for Pipes and Wires:					
Salaries, Electrical Comm'n, 1928 Loan..	.....	.....	$16,170 00	.....	$15,886 11
Expenses, " " 1928 " ..	$692 35	.....	189,000 00	.....	57,258 30
Conduit 1922 Loan.....	188 77	.....	10,130 22	.....	10,318 99
Rental, subways	34,076 19	.....	.....	.....	.....
Operating and maintenance of conduits, completed	.....	.....	7,486 00	7,421 28	.....
Loan 1928	.....	$80,000 00	.....	.....	.....
Transferred from 1902:					
Electrical Commission, insurance	.....	.....	.....	.....	1,742 90
" " Contingent, 1922.	15,291 03	.....	.....	15,291 03	19,231 05
	$50,248 34	$80,000 00	$222,786 22	$22,712 31	$104,437 35
56. Miscellaneous:					
Turnpike dividends	$114 30	.....	.....	.....	.....
	$114 30	.....	.....	.....	.....
Total Public Industries	$1,035,923 31	$115,000 00	$1,866,873 22	$1,059,258 01	$166,963 98

61. Schools:					
Salaries, general office			$ 10,600 00	$ 10,382 28	
Expenses, "			1,500 00	1,500 00	
Salaries, day schools			1,145,018 00	1,145,015 84	
Expenses, "			127,437 50	127,432 13	
Salaries, night schools			8,524 00	8,498 75	
Expenses, "			500 00	497 68	
Furnishing new buildings			38,500 00	26,899 93	
Purchase 124 and 126 High street			5,000 00		5,000 00
" lot Ostend and Charles streets.			2,000 00		
Building school Chestnut and Fourth aves.			6,769 42		6,769 42
" addition to School No. 54			10,000 00		10,000 00
" School No. 83, Lakewood avenue and Orleans street			28,063 80		28,063 80
" School No. 84, Johnson and Heath streets			28,957 00		28,957 00
" School No. 69, North avenue and Washington street			19,872 09		19,872 09
" School No. 74, Twenty-second and Cromwell streets			26,029 00		26,029 00
" school Saratoga and Mount sts.			50,000 00		45,221 35
Lot and building School No. 10, Hollins street, near Schroeder street			45,000 00		4,130 95
Proportion State fund	$281,937 63				
Tuition non-residents	4,810 41			9 00	
Salaries Group M, special			4,323 61	4,238 61	
Free text-books, State of Maryland	53,605 36			55,150 22	

6. Public Education, Recreation and Art—Concluded.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
61. Schools—Continued.					
Transferred from 1902:					
Building school Chestnut and Fourth aves.	.....	.....	.....	.....	$16,824 96
" addition to School No. 54.....	.....	.....	.....	.....	861 75
" School No. 83, Lakewood avenue and Orleans street.....	.....	.....	.....	.....	5,684 43
" School No. 84, Johnson and Heath streets.....	.....	.....	.....	.....	15,292 17
" School No. 69, Walbrook avenue and Smallwood street.....	.....	.....	.....	.....	18,197 88
" School No. 74, Twenty-second and Cromwell streets.....	.....	.....	.....	.....	8,727 64
Lot adjoining School No. 53.....	.....	.....	.....	.....	11,713 41
Day school, expenses.....	.....	.....	.....	6,534 08	.....
Furnishing two new buildings.....	.....	.....	.....	15,106 80	.....
	$340,353 40	.....	$1,558,094 42	$1,401,265 32	$251,345 85
62. Libraries:					
Enoch Pratt Free Libray.....	.....	.....	$4,258 00	$4,258 00	.....
	.....	.....	$4,258 00	$4,258 00	.....

63. PARKS:					
Salaries, general office			$3,024 00	$2,946 00	
Expenses, "			1,640 00	1,289 23	
Salaries, parks and squares	$267 47		188,797 44	189,047 35	
Expenses, " "	5 80		148,398 79	141 814 71	
New improvements			9,307 77	9,307 77	
Contingent Fund, 1945 Loan			500 00	493 20	
Public park, Riggs and Fulton aves			1,000 00		
Memorial, Wyman's park			500 00		
Sale of sheep, old material, etc	4,238 59				
Contingent Fund, refund 1902	9,150 00				
Transferred from 1902:					
Repairs, Green Spring avenue road	2 25			3,515 28	
Mainten'ce electric plant, Druid Hill Park				293 53	
	$13,664 11		$353,168 00	$348,707 07	
64. BATHS:					
Walter's Free Baths, salaries			$8,849 00	$8,714 24	
" " expenses			7,175 00	7,172 10	
Women's outdoor baths			1,100 00	884 60	
Receipts	$5,981 55				
	$5,981 55		$17,124 00	$16,770 94	
65. MISCELLANEOUS:					
Maryland Institute			$9,000 00	$9,000 00	
Veteran Volunteer Firemen's Association			1,000 00	1,000 00	
Mexican Veteran Monument "			5,000 00	5,000 00	
			$15,000 00	$15,000 00	
Total Public Education, Recreation and Art	$359,999 06		$1,947,644 42	$1,786,001 33	$251,345 85

7. Public Debt.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
71. Loans:					
State tax on city loans			$26,000 00	$22,514 41	
Refund of State tax	$886 72				
	$886 72		$26,000 00	$22,514 41	
72. Sinking Funds:					
Interest on W. M. R. R.					$148,365 00
Purchase of stocks					777,942 73
Expenses					1,606 50
Interest on stock and investments		$602,890 59			
Premiums 1928 and 1943 Loans		11,537 72			
Interest on deposits		3,715 97			
Rentals and ground rents		37,214 56			
Park Board 5 Per Cent. 1903		17,381 30			
Sale lots 5 to 12 President street		32,083 33			
Payment City Hall 1902 Loan					700 00
		$704,823 47			$928,614 23
Total Public Debt	$886 72	$704,823 47	$26,000 00	$22,514 41	$928,614 23

8. Interest.

81. Interest upon Funds on Deposit:					
Interest on deposits	$40,092 34				
" Horwitz Benev'nt Fund Investm't		$576 26			
	$40,092 34	$576 26			
82. Interest upon Delinquent Taxes:					
Interest on taxes	$76,502 83				
" " paving certificates			$1,401 96	$63 46	
	$76,502 83		$1,401 96	$63 46	
83. Payment of Interest upon Debt:					
Water Board, Loans	$380,000 00				
Park " "	40,769 89				
Finance Commissioners	148,365 00				
Interest on general loans			$1,510,468 00	$931,883 11	
" " Water Loan				380,000 00	
" " Park "				40,769 89	
" " W.M.R.R. Loan				148,365 00	
	$569,134 89		$1,510,468 00	$1,501,018 00	
Total Interest	$685,730 06	$576 26	$1,511,869 96	$1,501,081 46	

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
91. Real Property Taxes:					
Tax sales	$1,422 50	.....	.....	$506 50	.....
Bailiffs' fees	42,582 62	.....	.....	42,582 62	.....
Taxes, 1903	3,748,310 13	.....	.....	.....	.....
" arrearages	862,790 36	.....	.....	.....	.....
Conscience Fund	103 39	.....	.....	.....	.....
Fees, excess	83 86	.....	.....	.....	.....
Thos. Hughes, Trustee, refund tax sale	.....	.....	$118 70	118 70	.....
Transferred from 1902:					
Refund taxes in Annex, paid in error, 1900	.....	.....	.....	13,505 54	.....
	$4,655,292 86	.....	$118 70	$56,713 36	.....
92. Personal Property Taxes:					
Taxes, 1903	$1,191,205 37	.....	.....	.....	.....
" arrearages	126,265 05	.....	.....	.....	.....
Securities	249,724 38	.....	.....	.....	.....
Mortgages	17,752 75	.....	.....	.....	.....
	$1,584,947 55	.....	.....	.....	.....
93. Liquor Licenses:					
Liquor License receipts, ¾	$445,594 70	.....	.....	.....	.....
	$445,594 70	.....	.....	.....	.....

94. Other Licenses:					
General licenses, expenses			$1,000 00	$ 554 25	
Maryland Society Prevention of Cruelty to Animals				8,000 00	
Dog licenses, expenses				211 20	
Licenses	$64,143 41				
Dog licenses and fines	17,389 68				
	$81,533 09		$1,000 00	$8,765 45	
95. Franchise Taxes:					
Street Railway, park tax	$347,625 94				
Railways	610 00				
Drains	20,947 97				
Buildings, etc	7,387 60				
Refunded				$377 18	
" F. Bauernschmidt			$500 00	500 00	
" J. L. Gilbert & Bro			20 20	20 20	
" H. C. Bowman			75 00	75 00	
" J. N. Cooper			8 00	8 00	
	$376,571 51		$603 20	$980 38	
96. Miscellaneous:					
Inspector of Weights and Measures	$ 5,286 62			$5,286 62	
Permits, sheds, etc	6,798 34			647 47	
	$12,084 96			$5,934 09	
Total Taxation	$7,156,024 67		$1,721 90	$72,393 28	

10. Sundries.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
BOOK ACCOUNTS.					
I. City Collector:					
Opening streets, city benefits	$13,870 96				
" appropriation account			$13,870 96	$13,870 96	
City Register, receipts 1902 estimated for 1903	85,541 12			85,541 12	
	$99,412 08		$13,870 96	$99,412 08	
II. Maryland Society for the Prevention of Cruelty to Animals:					
Released to city	$13,696 29				
Dog licenses and fines				$13,696 29	
	$13,696 29			$13.696 29	
III. Finance Commissioners:					
Premiums on 1928 Loan	$ 7,526 22			$ 7,526 22	
" " 1943 "	4,011 50			4,011 50	
General surplus, 1902	12,511 14			12,511 14	
Sinking Funds, 1903		$505,182 22	$513,010 14	505,182 22	
W. M. R. R. Fund		300,000 00			$300,000 00
Sinking Funds, 1903					
Water Board surplus, 1903					
	$24,048 86	$805,182 22	$513,010 14	$529,231 08	$300,000 00

IV. Public Trust Funds:					
Fred. Raine Fund	$ 14 00	.....	.....	$ 14 00	.....
Enoch Pratt Free Library Fund	50,000 00	.....	.....	50,000 00	.....
	$50,014 00	.....	.....	$50,014 00	.....
Total Sundries	$187,171 23	$805,182 22	$526,881 10	$692,353 45	$300,000 00

SCHEDULE A—VII.

A Tabulated Budgetary Statement of the Finances of all the Departments.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance carried to Appropriation Account.
Inspector of Buildings.											
Repairs to city property, schools, etc.	25	.....	.....	$132,567 00	$132,567 00	$133,567 00	$*1,000 00	$1,000 00	.....	.....	.....
Sanitary and other improvements to school-houses	25	.....	.....	59,400 00	59,400 00	59,400 00	.....	.....	.....	.....	.....
Emptying cess-pools	25	.....	.....	500 00	500 00	500 00	.....	.....	.....	.....	.....
Incidentals	25	.....	.....	500 00	500 00	500 00	.....	.....	.....	.....	.....
Livery and transportation	25	.....	.....	900 00	900 00	900 00	.....	.....	.....	.....	.....
Salaries	25	.....	.....	24,380 00	24,380 00	24,374 53	5 47	.....	.....	.....	5 47
Building school, Chestnut and Fourth avenues, Ord. 58, 1902	61	$16,824 96	.....	6,769 42	23,594 38	23,594 38	.....	.....	.....	.....	.....
Addition to School No. 51, Ord. 78, 1902	61	861 75	.....	10,000 00	10,861 75	10,861 75	.....	.....	.....	.....	.....
Building School No. 83, Ord. 58, 1902.	61	5,684 43	.....	28,063 80	33,748 23	33,748 23	.....	.....	.....	.....	.....
Building School No. 84, Ord. 58, 1902.	61	15,292 17	.....	28,957 00	44,249 17	44,249 17	.....	.....	.....	.....	.....
Building School No. 69, Ord. 48, 1902.	61	18,197 88	.....	19,872 09	38,069 97	38,069 97	.....	.....	.....	.....	.....
Building School No. 74, Ord. 48, 1902.	61	8,727 64	.....	26,029 00	34,756 64	34,756 64	.....	.....	.....	.....	.....
Building Engine House No. 23	22	9,222 07	.....	11,000 00	20,222 07	20,222 07	.....	.....	.....	.....	.....
Building Truck House No. 7	22	.....	.....	1,020 59	1,020 59	1,014 56	6 03	.....	.....	.....	6 03
Building school, Mount and Saratoga streets	61	.....	.....	50,000 00	50,000 00	45,221 35	4,778 65	.....	.....	$4,778 65	.....
Lot and building School No. 10, Ord. 65, 1902	61	.....	.....	45,000 00	45,000 00	4,130 95	40,869 05	.....	.....	40,869 05	.....
Lot and building new engine house.	22	.....	.....	30,000 00	30,000 00	26,220 03	3,779 97	.....	.....	3,779 97	.....

Lot and building new engine house, Ord. 73, 1902	22			20,000 00	20,000 00	4,515 47	15,484 53			15,484 53	
Lavatory for Women, City Hall	17			1,000 00	1,000 00	1,000 00					
Truck House No. 11, reserve	22			1,000 00	1,000 00	1,000 00					
Building shed on Bowley's wharf	54			2,034 00	2,034 00	1,439 31	594 69				594 69
Infectious Disease Hospital, Ord. 127, 1901	24	24,808 50			24,808 50		24,808 50			24,808 50	
Lot and building engine house, Ord. 139, 1901	22	4,025 51			4,025 51	4,025 51					
Building Engine House No. 22	22	1,000 00			1,000 00		1,000 00			1,000 00	
Removing dangerous walls	25	*104 77	158 44		158 44	1,157 51	*1,103 84			*1,103 84	
Hospital addition to Jail	36	2,648 10			2,648 10	2,538 60	109 50				109 50
Permits, sheds, etc	96		6,798 34		6,798 34	647 47	6,150 87		6,150 87		
Commissioner of Street Cleaning.											
Street carts and men	44			84,240 00	84,240 00	86,348 50	*2,108 50	2,126 50			18 00
Sweepers and scrapers	44			83,200 00	83,200 00	84,361 96	*1,161 96	1,176 24			14 28
Salaries	41			16,200 00	16,200 00	16,175 82	24 18				24 18
Incidental expenses	41			1,000 00	1,000 00	999 03	97				97
Sweeping machines, sprinklers, etc.	44			25,000 00	25,000 00	25,636 09	*636 09	650 00			13 91
Cleaning sewers and inlets	47			11,466 00	11,466 00	11,457 43	8 57				8 57
Removal of garbage, (Deficiency 1902)	46			7,273 96	7,273 96	7,273 96					
Garbage collection and disposal	46			147,300 00	147,300 00	147,767 95	*467 95	629 95			162 00
Tools, repairs, etc	44			2,500 00	2,500 00	2,696 62	*196 62	197 26			64
Printing reports, etc	44			100 00	100 00	64 38	35 62				35 62
Sale of dirt	44		960 10		960 10				960 10		
Forfeiture of contract	44	1,000 00	100 00		1,100 00				1,000 00	100 00	
Supt. of Lamps and Lighting.											
Gas and Maintenance	45			137,208 45	137,208 45	137,205 43	3 02				3 02
Electric lights	45			158,548 28	158,548 28	158,510 22	38 06				38 06
Naphtha lamps, Maintenance	45	278 47		28,084 38	28,362 85	25,949 76	2,413 09				2,413 09
Salaries	41			12,548 00	12,548 00	12,512 67	35 33				35 33
Incidentals	41			300 00	300 00	253 43	46 57				46 57
Inspection of meters	45		2,764 26		2,764 26	50 34	2,713 92		2,713 92		
Special illumination public bldgs	45			25,000 00	25,000 00	24,832 35	167 65				167 65

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
Harbor Board.											
Salaries	41			$ 5,200 00	$ 5,200 00	$ 5,200 00					
Dredging Harbor	54			49,382 00	49,382 00	49,381 93	$ 07				$ 07
Iceboats, Maintenance and repairs	54			14,680 00	14,680 00	14,680 00				$687 72	
Repairs of wharves	54	$1,152 44		5,000 00	6,152 44	5,464 72	687 72				
Removal of ashes from Tow boats	54			900 00	900 00	681 02	218 98				218 98
Removal of floating matter	54			1,350 00	1,350 00	1,322 16	27 84				27 84
Incidentals	41			500 00	500 00	480 80	19 20				19 20
Iceboat "Annapolis" State appropriation	54	274 05	$ 5,000 00		5,274 05	5,274 05					
Old material	54		6 00		6 00		6 00			6 00	
Commissioner of Health.											
Salaries	24			57,836 00	57,836 00	57,760 56	$ 75 44				75 44
Expenses	24			13,504 00	13,504 00	21,992 91	*8,488 91	$ 8,488 91			
Quarantine, salaries	24			11,105 00	11,105 00	11,101 00	4 00				4 00
Quarantine, expenses	24		4 20	5,854 20	5,854 20	5,854 20					
Quarantine, barracks	24					5,050 57	*5,050 57	7,195 50		2,144 93	
R. J. Biggs & Co	24					85 62	*85 62	85 62			
Tonnage	24		15,146 86		15,146 86				$15,146 86		
Birth and death transcripts	24		227 00		227 00				227 00		

Board of Fire Commissioners											
Salaries	22			386,560 00	386,560 00	386,256 04	303 95				303 96
Expenses	22			114,410 00	114,410 00	114,410 00					
Equipment and salaries new engine company	22			18,580 00	18,580 00	18,580 00					
Ida E. O'Keefe	37			400 00	400 00	400 00					
Equipment, Engine Company No. 24	22			15,000 00	15,000 00	15,000 00					
Salaries, Engine Company No. 24	22			5,300 00	5,300 00	4,849 13	450 87				450 87
Old material	22		2,322 36		2,322 36				2,322 36		
City Engineer's Department.											
Repairs of sewers	47	1,191 97		24,500 00	25,691 97	24,831 56	860 41			860 41	
Maintenance of bridges and culverts	48			34,060 00	34,060 00	35,541 58	*1,481 58	1,775 00		293 42	
Repairs, roads, streets, etc	43			180,450 00	180,450 00	181,450 00	*1,000 00	1,000 00			
Property yard, Maintenance	49			1,500 00	1,500 00	1,469 30	30 70				30 70
Paving in front of City property	43	2,261 85		3,000 00	5,261 85	4,511 79	750 06			750 06	
Paving and repairing cross streets	43	323 58		7,500 00	7,823 58	7,823 58					
Footway crossings	43	88 99		6,000 00	6,088 99	5,834 78	254 21			254 21	
Livery and transportation	41			1,200 00	1,200 00	1,200 00					
Incidentals	41			500 00	500 00	500 00					
Light street bridge, Maintenance	48			7,880 00	7,880 00	7,870 36	9 64				9 64
Salaries	41			28,680 00	28,680 00	28,679 82	18				18
Advertising	41			1,000 00	1,000 00	981 27	18 73				18 73
Improvement in and addition to drainage system	47	169 37		7,000 00	7,169 37	7,169 37					
Block st. drawbridge, Maintenance	48			1,350 00	1,350 00	1,350 00					
Sumwalt's Run culvert	47					1,400 00	*1,400 00	1,400 00			
Sewer for School No. 69	47					3,444 50	*3,444 50	4,251 50			807 00
Pavement for School No. 69	43					289 34	*289 34	650 00			360 66
Ogier's Run sewer	47	33 08			33 08	33 08					
Widening North avenue, etc	43	1,593 17			1,593 17	1,593 17					
Grading and kerbing Twenty-ninth street	43	2,558 24			2,558 24	2,558 24					
Paving Fulton avenue	43	18,995 00			18,995 00	18,423 84	571 16				571 16
Paving East North avenue	43	24,284 72	1,539 02		25,823 74	25,315 96	507 78				507 78
Paving Warren avenue	43	19,115 90			19,115 90	18,715 69	400 21				400 21
Paving McCullough street	43	4,000 00			4,000 00	3,212 87	787 13				787 13
Paving North ave. from Penna. ave.	43	2,497 92			2,497 92	2,497 92					
Grading and kerbing North Calvert street	43	714 13			714 13	795 76	*81 63	81 63			
Private paving and inspection	43	766 38	32,513 95		33,280 33	31,042 01	2,238 32			2,238 32	
Paving certificates	43	9,057 64			9,057 64	485 51	8,572 13			8,572 13	

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
City Engineer's Department—Con.											
Rental of crushers	41	$ 257 35			$ 257 35		$ 257 35		$ 257 35		
Canton street sewer loan account	47	1,403 62			1,403 62		1,403 62			$1,403 62	
Improvement Harford run	47	3,096 89			3,096 89		3,096 89			3,096 89	
Paving streets by assessment	43	22,453 42	$ 8,886 16		31,339 58	$36,576 61	*5,237 03	$706 65		697 10	$*5,227 48
Old material	43		1,711 55		1,711 55	20 00	1,691 55		1,691 55		
Repairing drains Lipps' lane	47							160 00			160 00
O. W. Connett	41					100 00	*100 00	100 00			
Paving St. Paul street, North avenue to Twenty-fifth street	43	1,110 18			1,110 18	1,110 18					
City Collector.											
Salaries	14			$32,500 00	32,500 00	32,500 00					
Expenses	14			2,000 00	2,000 00	2,300 00	*300 00	300 00			
Taxes, real, 1903	91		3,748,310 13		3,748,310 13				3,748,310 13		
Taxes in arrears	91		862,790 36		862,790 36				862,790 36		
Tax bailiffs	91		42,582 62		42,582 62	42,582 62					
Taxes, personal, 1903	92		1,191,205 37		1,191,205 37				1,191,205 37		
Taxes in arrears	92		126,265 05		126,265 05				126,265 05		
Securities	92		249,724 38		249,724 38				249,724 38		
Mortgages	92		17,752 75		17,752 75				17,752 75		
Conscience Fund	91	21 96	103 39		125 35		125 35		21 96	103 39	
Tax sales, property	91	*9,064 76	1,422 50		1,422 50	506 50	*8,148 76			*8,148 76	
Interest on taxes	82		76,502 83		76,502 83				76,502 83		
Thos. Hughes, Trustee, refunds	91					118 70	*118 70	118 70			
Fees excess	91		83 86		83 86					83 86	

Appeal Tax Court.											
Salaries	15			23,200 00	23,200 00	22,815 00	385 00				385 00
Expenses	15			1,675 00	1,675 00	1,675 00					
Refunding taxes, Annex, paid in error, 1900	91	27,918 49			27,918 49	13,505 54	14,412 95			14,412 95	
Commissioners for Opening Streets.											
Salaries	41			6,900 00	6,900 00	6,895 17	4 83				4 83
Expenses	41			172 00	172 00	29 63	142 37				142 37
Opening streets by assessments	42	7,171 26	24,786 50		31,957 76	14,879 14	17,078 62	4,507 57	4,772 98	16,813 21	
Liquor License Commission.											
Salaries	18			11,000 00	11,000 00	10,199 95	800 05				800 05
Expenses	18			3,919 50	3,919 50	3,919 50					
Sale of old material	18	20 00			20 00				20 00		
Liquor Licenses, ¾ receipts	93		445,594 70						445,594 70		
Supervisors of Elections.											
Registration, Spring	15			16,357 00	16,357 00	15,183 12	1,173 88				1,173 88
Election, Primary, Spring	15			19,425 00	19,425 00	19,414 41	10 59				10 59
Election, Spring	15			20,675 00	20,675 00	20,504 16	170 84				170 84
Registration, Fall	15			55,804 00	55,804 00	55,414 47	389 53				389 53
Election, Primary, Fall	15			20,925 00	20,925 00	20,907 92	17 08				17 08
Elections, Fall	15			17,879 00	17,879 00	17,181 13	697 87				697 87
Expenses	15			4,133 00	4,133 00	3,987 24	145 76				145 76
Salaries	15			15,000 00	15,000 00	14,808 38	191 62				191 62
Candidates' assessments, duplicate lists, etc	15	451 85	6,580 00		7,031 85		7,031 85		406 85	6,625 00	
General Expenses.											
Maryland Institute	65			9,000 00	9,000 00	9,000 00					
Transp'tion to House of Correction	36			500 00	500 00	379 52	120 48				120 48
M. Franke, widow	37					300 00	*300 00	300 00			
General licenses	91			1,000 00	1,000 00	554 25	445 75				445 75

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
General Expenses—Con.											
Mexican Veterans' Monument Association	65			$5,000 00	$5,000 00	$5,000 00					
Commission widening Light street	49			500 00	500 00	327 00	$173 00				$173 00
Fred. Bauernschmidt, refund	95			500 00	500 00	500 00					
J. L. Gilbert & Bro	95			20 20	20 20	20 20					
Pension account, W. H. War	37			260 00	260 00	260 00					
Veteran Volunteer Firemen's Association	65			1,000 00	1,000 00	1,000 00					
Fanny E. Schaefer	37					300 00	*300 00	$300 00			
Water for fire-plugs at Carroll	22			400 00	400 00	450 00	*50 00	50 00			
Board of Estimates	18			1,000 00	1,000 00	957 11	42 89				42 89
Board of Public Improvements	18			600 00	600 00	503 25	96 75				96 75
Coroners	24			9,000 00	9,000 00	9,000 00					
Municipal Telephone Exchange	18		$1,050 40	6,993 00	8,043 40	5,721 77	2,321 63				2,321 63
Contingent Fund	18	$2 488 00		50,000 00	52,488 00	49,940 09	2,547 91		$2,488 00		59 91
H. C. Bowman & Co	95					75 00	*75 00	75 00			
J. N. Cooper & Co	95					8 00	*8 00	8 00			
City Librarian.											
Salaries	16			3,150 00	3,150 00	3,087 50	62 50				62 50
Expenses	16			14,200 83	14,200 83	14,737 83	*537 00	574 00			37 00
City Codes	16		81 50		81 50				81 50		

Diary of City Council.											
Salaries	12			47,750 00	47,750 00	47,569 15	108 85				180 85
Expenses	12			7,835 00	7,835 00	11,256 01	*3,421 01	3,508 45			87 44
Refund, Committee on Legislation, 1901	12	119 85			119 85				119 85		
Mayoralty.											
Salaries	11			10,400 00	10,400 00	10,400 00					
Expenses	11			3,000 00	3,000 00	3,093 95	*93 95	100 00			6 05
Salary, Municipal Statistician	18			1,500 00	1,500 00	1,500 00					
Expenses, Municipal Statistician	18			2,500 00	2,500 00	1,370 75	1,129 25				1,129 25
City Register.											
Salaries	14			10,700 00	10,700 00	10,700 00					
Expenses	14			450 00	450 00	246 18	203 82				203 82
Interest on stock debt	83			1,510,468 00	1,510,468 00	1,501,018 00	9,450 00				9,450 00
State tax on city loans	71	25,974 76		26,000 00	51,974 76	22,514 41	29,460 35			25,974 76	3,485 59
Ground rent on city property	52			51,000 00	51,000 00	50,964 08	35 92				35 92
Advertising laws	16			2,000 00	2,000 00	1,996 84	3 16				3 16
Enoch Pratt Free Library Fund	62			4,258 00	4,258 00	4,258 00					
Interest on paving certificates	82			1,401 96	1,401 96	63 46	1,338 50			1,338 50	
City seals	14	8 94	10 05		18 99				8 94	10 05	
Turnpike dividends	56	120 60	114 30							234 90	
Rents from city property	52	2,967 20	3,498 07		6,465 27	36 61	6,428 66		1,359 11	5,069 55	
Water Registrar, int. on water loans	83		380,000 00						380,000 00		
Park Board, interest on park loans	83		40,769 89						40,769 89		
W. M. R. R., int. W. M. R. R. loans	83		148,365 00						148,365 00		
State tax city loans	71		886 72						886 72		
City Comptroller.											
Salaries	14			12,600 00	12,600 00	12,600 00					
Expenses	14			450 00	450 00	923 88	473 88	750 00			276 12
Assistant market masters	53			6,400 00	6,400 00	6,400 00					
Insurance	49			1,500 00	1,500 00	265 00	1,235 00				1,235 00
Hose for various markets	53			800 00	800 00	678 96	121 04				121 04
Lot adjoining School No. 53	61	11,713 41			11,713 41	11,713 41					
Lots for schools, etc	61	551 97			551 97				551 97		
Car tickets	18	*184 25	6,246 75		6,062 50	6,251 50	*189 00			*189 00	

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
City Comptroller—Con.											
Market receipts and expenditures	53	.....	$59,676 63	.....	$59,676 63	$4,414 20	$55,262 43	.....	$55,262 43	.....	.....
Wharfage receipts and expenditures	54	.....	44,247 51	.....	44,247 51	9,386 27	34,861 24	.....	34,861 24	.....	.....
Market Hall receipts and exp'ditutes	53	$869 00	1,341 50	.....	2,210 50	373 97	1,836 53	.....	1,836 53	.....	.....
Inspector of Weights and Measures, expenditures	96	.....	5,286 62	.....	5,286 62	5,286 62	.....	.....	.....	.....	.....
Insurance, Bay View Asylum	.....	906 39	.....	.....	906 39	.....	.....	.....	906 39	.....	.....
Interest on deposits	81	.....	40,092 34	.....	40,092 34	.....	.....	.....	40,092 34	.....	.....
U. S. Government 1812 war claim	14	78,066 77	.....	.....	78,066 77	.....	.....	.....	78,066 77	.....	.....
Old tags	14	2 25	.....	.....	2 25	.....	.....	.....	2 25	.....	.....
General surplus 1902	14	.....	12,511 14	.....	12,511 14	12,511 14	.....	.....	.....	.....	.....
Sale of lot, Mosher and Elm streets	49	.....	423 00	.....	423 00	29 75	393 25	.....	.....	$393 25	.....
Minor privileges and franchises	95	.....	28,945 57	.....	28,945 57	377 18	28,568 39	.....	28,568 39	.....	.....
Law Department.											
Salaries	13	.....	.....	$11,300 00	11,300 00	11,104 80	195 20	.....	.....	.....	$195 20
Expenses	13	.....	.....	1,500 00	1,500 00	1,496 10	3 90	.....	.....	.....	3 90
Stenographer, typewriter and assts.	13	.....	.....	2,500 00	2,500 00	2,428 88	71 12	.....	.....	.....	71 12
Judgments and suits	13	.....	.....	10,000 00	10,000 00	12,079 66	*2,079 66	$2,200 00	.....	.....	120 34
Topographical Survey.											
Salaries	18	.....	.....	6,090 00	6,090 00	5,790 00	300 00	.....	.....	.....	300 00
Expenses	18	.....	.....	180 00	180 00	71 51	108 49	.....	.....	.....	108 49
Maps, etc	18	.....	101 25	.....	101 25	.....	.....	.....	101 25	.....	.....

Free Public Baths Commission.											
Salaries	64			8,849 00	8,849 00	8,714 24	134 76				134 76
Expenses	64			7,175 00	7,175 00	7,172 10	2 90				2 90
Women's out-door baths	64			1,100 00	1,100 00	884,60	215,40				215 40
Receipts	64		5,981 55		5,981 55				5,981 55		
Superintendent of Public Buildings.											
Salaries, City Hall	17			14,820 00	14,820 00	14,807 91	12 09				12 09
Salaries, City Hall Annex	17			2,250 00	2,250 00	2,250 00					
Expenses, City Hall	17	1,927 94		8,950 00	10,877 94	10,877 94					
Expenses, City Hall Annex	17	313 60		4,300 00	4,613 60	4,613 60					
Salaries, Court House	17			33,565 00	33,565 00	33,552 34	12 66				12 66
Expenses, Court House	17			17,250 00	17,250 00	17,250 00					
Mural Decorations, Court House	17	3,300 00			3,300 00	3,300 00					
Old material	17		68 85			68 85				68 85	
Board of School Commissioners.											
Salaries, office, etc	61			10,600 00	10,600 00	10,382 28	217 72				217 72
Expenses, office, etc	61			1,500 00	1,500 00	1,500 00					
Salaries, day schools	61			1,145,018 00	1,145,018 00	1,145,015 84	2 16				2 16
Expenses, day schools	61	6,534 08		127,437 50	133,971 58	133,966 21	5 37				5 37
Salaries, night schools	61			8,524 00	8,524 00	8,498 75	25 25				25 25
Expenses, night schools	61			500 00	500 00	497 68	2 32				2 32
Furnishing new buildings	61			38,500 00	38,500 00	26,899 93	11,600 07			11,600 07	
Purchase 124 & 126 N. High street, Ordinance 17, 1901	61			5,000 00	5,000 00	5,000 00					
Purchase lot Charles and Ostend sts., Ordinance 28, 1902	61			2,000 00	2,000 00					2,000 00	
Salaries, day schools, special, Group M	61					4,238 61	*4,238 61	4,323 61			85 00
Kindergarten supplies		4,526 23			4,526 23					4,526 23	
Furnishing two new buildings	61	15,106 80			15,106 80	15,106 80					
Free text books	61	1,579 34	53,605 36		55,184 70	55,150 22	34 48			34 48	
Tuition non-residents	61		4,810 41		4,810 41	9 00	4,801 41		4,801,41		
Proportion State Fund	61		281,973,63		281,937 63				281,937 63		
Intestate estates	61	1,519 06			1,519 06					1,519 06	

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
Board of Police Commissioners.											
Salaries	21			$944,004 00	$944,004 00	$937,423 58	$6,580 42			$6,580 42	
Expenses	21			67,335 00	67,335 00	67,334 98	02				$ 02
Salaries, Board of Police Examiners	21			5,500 00	5,500 00	5,500 00					
Expenses, Board of Police Examiners	21			682 00	682 00	479 85	202 15				202 15
Courts, Etc.											
Salaries, Criminal Court	23			13,500 00	13,500 00	13,500 00					
Expenses, Criminal Court	23			72,900 00	72,900 00	65,746 99	7,135 01				7,135 01
Salaries, Baltimore City Court	23			7,000 00	7,000 00	6,250 00	750 00				750 00
Expenses, Baltimore City Court	23			15,718 75	15,718 75	12,996 15	2,722 60				2,722 60
Salaries, Court of Common Pleas	23			8,000 00	8,000 00	8,000 00					
Expenses, Court of Common Pleas	23			13,746 25	13,746 25	10,393 81	3,352 44				3,352 44
Salaries, Superior Court	23			7,420 00	7,420 00	7,420 00					
Expenses, Superior Court	23			12,767 90	12,767 90	12,267 42	500 48				500 48
Salaries, Circuit Court	23			3,900 00	3,900 00	3,900 00					
Expenses, Circuit Court	23			600 00	600 00	478 70	121 30				121 30
Salaries, Orphans' Court	23			10,016 00	10,016 00	9,952 00	64 00				64 00
Expenses, Orphans' Court	23			100 00	100 00	86 65	13 35				13 35
Magistrates' salaries	23			19,600 00	19,600 00	19,813 66	*213 66	$250 00			36 34
Salaries, Supreme Bench	23			4,500 00	4,500 00	4,477 76	22 24				22 24

Expenses, Supreme Bench	23			630 00	630 00	396 05	233 95				233 95
Salaries, Circuit Court No. 2	23			3,900 00	3,900 00	3,900 00					
Expenses, Circuit Court No. 2	23			400 00	400 00	300 75	99 25				99 25
Salaries, Juvenile Court	23			3,015 95	3,015 95	3,015 95					
Expenses, Juvenile Court	23			765 00	765 00	865 00	*100 00	100 00			
Fines	23		5,337 45		5,337 45	210 00	5,127 45		5,127 45		
Removed cases	23	1,021 58	805 94		1,827 52					1,827 52	
Supervisors of City Charities.											
Salaries, city offices	34			6,500 00	6,500 00	6,371 67	128 33				128 33
Expenses, city offices	34			1,000 00	1,000 00	822 98	177 02				177 02
Salaries, Bay View Asylum	34		67	24,100 00	24,100 67	23,445 26	655 41				655 41
Expenses, Bayview Asylum	34		26	97,600 00	97,600 26	87,599 32	10,000 94	800 00		10,800 00	94
Transp'n of poor to their homes	37	108 30	12 40	860 00	920 70	375 06	545 64		62 65	56 05	426 94
Care of Insane	32			127,000 00	127,000 00	126,948 13	51 87				51 87
City patients in Hospitals	31			62,000 00	62,000 00	59,551 00	2,449 00				2,449 00
Destitute and neglected children	33			35,000 00	35,000 00	31,324 88	3,675 12				3,675 12
Dispensary services	37			7,850 00	7,850 00	6,912 86	937 14				937 14
Temporary care of homeless men	35			1,000 00	1,000 00	912 40	87 60				87 60
Purchase "Hardesty Land"	34			50,000 00	50,000 00	49,666 97	333 03				333 03
Board of Insane	32		11,554 55		11,554 55				11,554 55		
Bayview Asylum, board and old materials	34		1,058 26		1,058 26				1,058 26		
Visitors to Baltimore City Jail.											
Salaries, Jail	36			32,080 00	32,080 00	31,887 69	192 31				192 31
Expenses, Jail	36		10 00	22,000 00	22,010 00	22,001 84	8 16				8 16
Board and old material	36		7,678 10		7,678 10				7,678 10		
Reformatories.											
Industrial Home for Colored Girls, Maintenance	36			3,500 00	3,500 00	2,782 75	717 25				717 25
Industrial Home for Colored Girls, improvements	36			1,500 00	1,500 00	1,500 00					
St. Mary's Industrial School	36			30,000 00	30,000 00	28,718 20	1,281 80				1,281 80
Female House of Refuge	36	1,000 00		4,000 00	5,000 00	3,266 80	1,733 20				1,733 20

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
Reformatories—Con.											
House of Good Shepherd for Colored Girls	36			$ 2,500 00	$ 2,500 00	$ 2,500 00					
House of Refuge, Maintenance	36			14,000 00	14,000 00	12,270 00	$1,730 00				$1,730 00
House of Refuge, manual training	36			6,000 00	6,000 00	6,000 00					
House of Refuge, repairs	36			3,000 00	3,000 00	2,987 26	12 74				12 74
Maintenance and care of colored youth and children	36			10,000 00	10,000 00	9,625 35	374 65				374 65
Water Board.											
Salaries, Collector of Water Rents and Licenses	51			22,600 00	22,600 00	22,596 50	3 50				3 50
Expenses, Collector of Water Rents and Licenses	51			387,511 00	387,511 00	381,049 51	6,461 49				6,461 49
Salaries, Water Engineer	51			85,730 00	85,730 00	84,157 13	1,572 87				1,572 87
Expenses, Water Engineer	51	$ 4,492 15	$5,765 96	362,700 00	372,958 11	370,523 04	2,435 07				2,435 07
New storage house, Gay street yard	51	21,596 02		9,000 00	30,596 02	27,809 24	2,686 78			$2,786 78	
Purchase of land and construction of reservoir	51			350,000 00	350,000 00	141 90	349,858 10			349,858 10	
Extension East, Jones' Falls	51			70,000 00	70,000 00	33,902 40	36,097 60				36,097 60
Extension West, Jones' Falls	51			225,000 00	225,000 00	673 09	224,326 91				224,326 91
General licenses, receipts	94		64,143 41		64,143 41				$64,143 41		
Dog licenses, receipts	94	4,517 81	17,389 68		21,907 49	8,211 20	13,696 29		13,696 29		
Dredging Loch Raven, loan account	51	69,314 71			69,314 71	26,508 79	42,805 92				42,805 92
Water rents	51		865,735 00		865,735 00	923 45	864,811 55		857,068 07	7,743 48	

Board of Park Commissioners.											
Salaries, office	63			3,024 00	3,024 00	2,946 00	78 00			78 00	
Expenses, office	63			1,640 00	1,640 00	1,289 23	350 77			350 77	
Salaries, parks and squares	63			188,797 44	188,797 44	188,779 88	17 56			17 56	
Expenses, parks and squares	63			148,398 79	148,398 79	141,808 91	6,589 88			6,589 88	
New improvements	63			9,307 77	9,307 77	9,307 77					
Contingent Fund, 1945 Loan	63			500 00	500 00	493 20	6 80		6 80		
Public park, Riggs and Fremont aves	63			1,000 00	1,000 00					1,000 00	
Memorial in Wyman's park	63			500 00	500 00					500 00	
Repairs, Green Spring avenue road	63	3,513 03	2 25		3,515 28	3,515 28					
Maintenance, Electric light plant, Druid Hill Park	63	293 53			293 53	293 53					
Sale of sheep, etc	63		4,238 59		4,238 59				3,542 06	696 53	
Balances		10,897 53			10,897 53					10,897 53	
Street railways, 9 per cent	95		347,625 94		347,625 94				347,625 94		
Electrical Commission.											
Salaries, Construction, 1928 Loan	55	1,742 90		16,170 00	17,912 90	17,629 01	283 89				283 89
Expenses, Construction 1928 Loan	55		692 35	189,000 00	189,692 35	57,258 30	132,434 05				132,434 05
Expenses, Construction, 1922 Loan	55	29,361 27	15,479 80		44,841 07	44,841 07					
Operating and maintaining Conduits	55			7,486 00	7,486 00	7,421 28	64 72				64 72
Rental of Subways	55		34,076 19		34,076 19				34,076 19		
Opening Streets.											
Belt street	42			6,754 31	6,754 31	6,754 31					
Jackson street	42			7,116 65	7,116 65	7,116 65					
Unclaimed damages		117 50			117 50					117,50	

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VII—Continued.

DEPARTMENTS.	Number in Schedule VI.	CREDITS.				DEBITS.	BALANCES AND TRANSFERS.				
		Balance from previous Year.	Receipts of the Year.	Appropriation by the City Council.	Total Credits (not including transfers).	Expenditures of the Year.	Surplus or Deficiency of Credits.	Contingent Fund Transfers to this Dept. (credits).	Amount Revenue carried to General Treasury.	Balance carried to following Year.	Balance closed to Appropriation Account.
Sinking Funds.											
General	10 III			$74,868 07	$74,868 07	$74,841 50	$ 26 57				$ 26 57
Internal Improvement 1928 Loan	10 III			94,709 57	94,709 57	93,232 39	1,477 18				1,477 18
Funding 1936 Loan	10 III			31,569 85	31,569 85	31,077 41	492 44				492 44
Public Improvement 1940 Loan	10 III			63,139 71	63,139 71	62,154 84	984 87				984 87
Four Million 1945 Loan	10 III			15,784 93	15,784 93	15,538 76	246 17				246 17
Water 1916 Loan	10 III			63,139 71	63,139 71	62,154 80	984 91				984 91
Water 1922 Loan	10 III			15,784 93	15,784 93	15,538 76	246 17				246 17
Water 1926 Loan	10 III			31,569 85	31,569 85	31,077 41	492 44				492 44
Conduit 1922 Loan	10 III			31,569 85	31,569 85	31,077 41	492 44				492 44
Refunding 1940 Loan	10 III			63,139 71	63,139 71	62,039 08	1,100 63				1,100 63
Conduit 1928 Loan	10 III			27,733 96	27,733 96	26,449 86	1,284 10				1,284 10
Loans.											
Four Million 1945	.....	$69,254 33			69,254 33	27,001 99	42,252 34			$42,252 34	
Five Million 1928	.....	16,485 60			16,485 60		16,485 60			16,485 60	
Six Million 1940	.....	57,542 81			57,542 81		57,542 81			57,542 81	
Conduit 1928	.....		$80,000 00		80,000 00	72,452 06	7,547 94			7,547 94	
Water 1943	.....		35,000 00		35,000 00	34,717 39	282 61			282 61	
Finance Commission	72 10 III 10 IV	90,431 11	1,573,107 09		1,663,538 20	1,278,628 23	384,909 97			384,909 97	

*Denotes Deficiency or Dr. Balance.

SCHEDULE A—VIII.

MAYORALTY A—VI (11).

Original Appropriation, salaries		$10,400 00

EXPENDITURES.

Salaries to December 1st, 1903:		
Mayor, Thomas G. Hayes, 5 months 18 days to May 19th, 1903	$2,790 32	
Mayor, Robert M. McLane, 6 months 13 days to December 1st, 1903	3,209 68	
Mayor's Secretary, J. H. Morgan Payne, 3 months 9 days to March 13th, 1903	630 62	
Mayor's Secretary, W. P. Ryan, 2 months 10 days to May 20th, 1903	445 15	
Mayor's Secretary, Harry W. Rodgers, 6 months 12 days to December 1st, 1903	1,224 23	
Clerk to Mayor, Walter M. Jordan, 12 months to December 1st, 1903	1,200 00	
Mayor's Messenger, Geo. H. Zimmerman, 6 months to June 1st, 1903	450 00	
Mayor's Messenger, John J. McGrath, 6 months to December 1st, 1903	450 00	
Total expenditures		$10,400 00

Original Appropriation, expenses		$3,000 00
Transferred from Contingent Fund		100 00
Total credits		$3,100 00

EXPENDITURES.

Advertising in sundry papers	$276 37	
Typewriter	69 26	
Subscriptions to newspapers	18 88	
Printing annual and other reports	133 05	
City car tickets for use of office force	21 50	
Postage	85 00	
Dues and entertaining League of American Municipalities,	2,444 31	
Telegrams	2 28	
Repairs to vault lock	1 50	
Directories	12 00	
Fountain pens	8 25	
Brushes	2 65	
Carriage hire	2 50	
Blacking box	5 50	
Spring water	4 55	
Rubber stamps and stationery	6 35	
Total expenditures		3,093 95
Surplus of credits		$6 05
Balance to surplus, 1903		6 05

DIARY CITY COUNCIL A—VI (12).

Original Appropriation, salaries..... $47,750 00

EXPENDITURES.

Salaries to December 1, 1903:			
First Branch officers:			
Chief Clerk, Fuller Waters, 5 months 21 days to May 22, 1903.....	$756 96		
Chief Clerk, A. S. Goldsborough, 6 months 10 days to December 1, 1903.....	843 00		
Reading Clerk, Wm. Haughey, 5 months 21 days to May 22, 1903.....	567 73		
Reading Clerk, H. C. Kilmer, 6 months 10 days to December 1, 1903.....	632 27		
Committee Clerk, S. P. Pace, 5 months 21 days to May 22, 1903.....	567 73		
Committee Clerk, Walter E. Busch, 6 months 10 days to December 1, 1903.....	632 27		
Sergeant-at-Arms, Chas. Kleinjohn, 5 months 21 days to May 22, 1903.....	378 50		
Sergeant-at-Arms, Joseph J. Willis, 6 months 10 days to December 1, 1903.....	421 46		
First Doorkeeper, Geo. L. Gemundt, 5 months 21 days to May 22, 1903.....	331 15		
First Doorkeeper, Geo. Harrisberg, 6 months 10 days to December 1, 1903.....	368 80		
Second Doorkeeper, James F. McDermot, 5 months 21 days to May 22, 1903.....	331 15		
Second Doorkeeper, Thomas Grumne, 6 months 10 days to December 1, 1903.....	368 80		
Page, John A. Keith, 5 months 21 days to May 22, 1903.....	378 50		
Page, George W. Graham, 6 months 10 days to December 1, 1903.....	421 46		
		$6,999 78	
First Branch members:			
1st Ward, Alfred M. Touchton, 5 months 22 days to May 23, 1903.....	$475 79		
1st Ward, George Konig, 6 months 12 days to December 1, 1903.....	529 57		
2d Ward, Jno. A. Janetzke, 5 months 22 days to May 23, 1903.....	475 79		
2d Ward, Wm. B. Smith, 6 months 12 days to December 1, 1903.....	529 57		
3d Ward, Martin Stuckert, 5 months 22 days to May 23, 1903.....	475 79		
3d Ward, W. H. Weissager, 6 months 12 days to December 1, 1903.....	529 57		
4th Ward, Louis D. Green, 12 months to December 1, 1903.....	1,000 00		
5th Ward, Lewis H. Miller, 5 months 22 days to May 23, 1903.....	475 79		
5th Ward, Joseph Seidenman, 6 months 12 days to December 1, 1903.....	529 57		
6th Ward, Robert McClintock, 5 months 22 days to May 23, 1903.....	475 79		
6th Ward, Stephen C. Little, 6 months 12 days to December 1, 1903.....	529 57		
7th Ward, George Gebelein, 5 months 22 days to May 23, 1903.....	475 79		
7th Ward, James Davis, 6 months 12 days to December 1, 1903.....	529 57		
Amounts carried forward.....	$7,032 16	$6,999 78	$47,750 00

Amounts brought forward	$7,032 16	$6,999 78	$47,750 00
8th Ward, W. H. Parker, 5 months 22 days to May 23, 1903	475 79		
8th Ward, John H. Hall, 6 months 12 days to December 1, 1903	529 57		
9th Ward, Samuel Regester, 5 months 22 days to May 23, 1903	475 79		
9th Ward, A. G. Watson, 6 months 12 days to December 1, 1903	529 57		
10th Ward, Terrence McMahon, 5 months 22 days to May 23, 1903	475 79		
10th Ward, B. J. Lee, 6 months 12 days to December 1, 1903	529 57		
11th Ward, Geo. S. Brown, 5 months 22 days to May 23, 1903	475 79		
11th Ward, Duke Bond, 6 months 12 days to December 1, 1903	529 57		
12th Ward, W. Starr Gephart, 5 months 22 days to May 23, 1903	475 79		
12th Ward, J. Barry Mahool, 6 months 12 days to December 1, 1903	529 57		
13th Ward, E. Clay Timanus, 5 months 23 days to May 23, 1903	475 79		
13th Ward, Roger T. Gill, 6 months 12 days to December 1, 1903	529 57		
14th Ward, Samuel Affelder, 5 months 22 days to May 23, 1903	475 79		
14th Ward B. M. Watts, 6 months 12 days to December 1, 1903	529 57		
15th Ward, H. A. Ulrich, 5 months 22 days to May 23, 1903	475 79		
15th Ward, Beverly W. Smith, 6 months 12 days to December 1, 1903	529 57		
16th Ward, Thos. S. Bell, 5 months 22 days to May 23, 1903	475 79		
16th Ward, Evan H. Morgan, 6 months 12 days to December 1, 1903	529 57		
17th Ward, Hiram Watty, 12 months to December 1, 1903	1,000 00		
18th Ward, B. Frank Kelley, 5 months 22 days to May 23, 1903	475 79		
18th Ward, Henry W. Nice, 6 months 12 days to December 1, 1903	529 57		
19th Ward, James H. Marine, 5 months 22 days to May 23, 1903	475 79		
19th Ward, Wm. W. Ratcliffe, 6 months 12 days to December 1, 1903	529 57		
20th Ward, Joseph Hart, 5 months 22 days to May 23, 1903	475 79		
20th Ward, C. Albert Kollmeyer, 6 months 12 days to December 1, 1903	529 57		
21st Ward, Wm. Kalb, 5 months 22 days to May 23, 1903	475 79		
21st Ward, Andrew J. Utz, 6 months 12 days to December 1, 1903	529 57		
22d Ward, A. M. Sproesser, 12 months to December 1, 1903	1,000 00		
23d Ward, Chas. H. Heintzeman, 12 months to December 1, 1903	1,000 00		
24th Ward, Henry J. C. Hoffman, 12 months to December 1, 1903	1,000 00		
		24,101 84	
Amounts carried forward		$31,101 62	$47,750 00

Amounts brought forward		$31,101 62	$47,750 00
Second Branch officers:			
Chief Clerk, John E. Hussey, 5 months 21 days to May 22, 1903	$756 96		
Chief Clerk, Merrill A. Teague, 6 months 10 days to December 1, 1903	843 17		
Reading Clerk, C. C. Rhodes, 5 months 21 days to May 22, 1903	567 73		
Reading Clerk, Robert M. Welsh, 6 months 10 days to December 1, 1903	632 20		
Committee Clerk, J. E. Muse, 5 months 21 days to May 22, 1903	567 73		
Committee Clerk, John A. Keith, 6 months 10 days to December 1, 1903	632 20		
Doorkeeper, F. E. Schrader, 5 months 21 days to May 22, 1903	378 45		
Doorkeeper, Geo. L. Gemundt, 6 months 10 days to December 1, 1903	421 46		
Page, W. A. Forwood, 5 months 21 days to May 22, 1903	331 15		
Page, Wm. W. Harper, 6 months 10 days to December 1, 1903	368 77		
		$5,499 82	
Second Branch members:			
President, Henry Williams, 5 months 19 days to May 20, 1903	$1,411 29		
President, E. Clay Timanus, 6 months 12 days to December 1, 1903	1,588 70		
1st Councilmanic District, Louis A. Dieter, 5 months 17 days to May 18, 1903	462 36		
1st Councilmanic District, Wm. A. Eisenbrandt, 12 months to December 1, 1903	1,000 00		
1st Councilmanic District, John Hubert, 6 months 12 days to December 1, 1903	529 57		
2d Councilmanic District, Wm. C. Smith, 12 months to December 1, 1903	1,000 00		
2d Councilmanic District, James B. Guyton, 5 months 17 days to May 18, 1903	462 36		
2d Councilmanic District, E. C. Livingston, 6 months 12 days to December 1, 1903	529 57		
3d Councilmanic District, Wm. D. Platt, 12 months to December 1, 1903	1,000 00		
3d Councilmanic District, Richard M. Venable, 5 months 17 days to May 18, 1903	462 36		
3d Councilmanic District, Geo. S. Brown, 6 months 12 days to December 1, 1903	529 57		
4th Councilmanic District, Harry F. Lindeman, 5 months 17 days to May 18, 1903	462 36		
4th Councilmanic District, Geo. W. Howser, 12 months to December 1, 1903	1,000 00		
4th Councilmanic District, B. Frank Kelley, 6 months 12 days to December 1, 1903	529 57		
		10,967 71	
Total expenditures			$47,569 15
Surplus of credit			$180 85
Balance to surplus, 1903			180 85

DIARY CITY COUNCIL A—VI (12).

Original appropriation, expenses	$7,835 00
Transferred from Contingent Fund	3,508 45
Total credits	$11,343 45

EXPENDITURES.

Advertising ordinances and notices in sundry papers	$486 87	
City directories	12 00	
Wm. D. Platt, expenses election contest	725 00	
Carriage hire, Mr. Hoffmeister's funeral	60 00	
Ice	22 00	
Washing towels	15 00	
J. D. Lucas Printing Company, printing journals both branches, department reports, etc	6,040 46	
Attorney fees	200 00	
Guggenheimer, Weil & Co	67 90	
Resolutions, Fuller Waters, A. M. Sprocsser, Henry Williams	600 00	
Portrait Mayor Hayes	650 00	
Mayor's Legislative Committee	200 00	
Wm. Haughey, extra service	100 00	
Fuller Waters, extra service	133 33	
Postage	185 00	
J. T. Sexton, indexing journals both branches	250 00	
Wm. J. C. Dulany Company, stationery	905 20	
Cushing Company, stationery	603 25	
Total expenditures		11,256 01
Surplus of credit		$87 44
Balance to surplus		87 44

RECEIPTS.

Amount brought forward from 1902	$119 85
Balance paid into the city treasury	119 85

LAW DEPARTMENT A—VI (13).

Original appropriation, salaries	$11,300 00

EXPENDITURES.

Salaries to December 1, 1903:

City Solicitor, Wm. Pinkney Whyte, 3 months 5 days to March 6, 1903	$1,053 75	
City Solicitor, Olin Bryan, 3 months 22 days to July 1, 1903	1,236 53	
City Solicitor, W. Cabell Bruce, 5 months to December 1, 1903	1,666 65	
First Assistant, Olin Bryan, 3 months 9 days to March 9, 1903	822 58	
First Assistant, Chas. W. Field, 5 months 9 days to September 18, 1903	1,322 57	
First Assistant, Albert C. Ritchie, 2 months 22 days to November 15, 1903	681 45	
Amounts carried forward	$6,783 53	$11,300 00

Amounts brought forward	$6,783 53	$11,300 00
First Assistant, Edgar Allan Poe, 15 days to December 1, 1903	125 00	
Second Assistant, Jas. W. McElroy, 7 months to August 1, 1903	1,458 31	
Second Assistant, Joseph S. Goldsmith, 5 months to December 1, 1903	1,041 65	
Third Assistant, Charles W. Field, 3 months 9 days to March 9, 1903	493 54	
Third Assistant, Albert C. Ritchie, 5 months 29 days to December 1, 1903	892 77	
Third Assistant, L. H. Lauchheimer, 2 months 2 days to	310 00	
Total expenditures		11,104 80
Surplus of credit		$195 20
Balance to surplus, 1903		195 20

Original appropriation, expenses $1,500 00

EXPENDITURES.

Printed dockets of the several courts	$117 00	
Law Books	333 35	
Postage	25 00	
Stamped envelopes	43 20	
City directory	6 00	
Printing briefs	17 70	
Copying records	621 15	
Procuring testimony	5 28	
Recording deed and plat	4 50	
Three typewriters and supplies	248 15	
Examined titles and Title Co	6 25	
Transportation to Cumberland, Md	13 00	
Transportation to Annapolis, Md	44 85	
Envelopes	2 00	
Copy of lease	4 00	
Acknowledgments	1 50	
Telegrams	3 17	
Total expenditures		1,496 10
Surplus of credit		$3 90
Balance to surplus, 1903		3 90

Original appropriation, stenographer, typewriter, etc $2,500 00

EXPENDITURES.

Stenographer and clerk to City Solicitor, Henry W. Weeks	$1,145 15	
Services to City Solicitor, W. W. Thompson	325 00	
" " " " W. L. Prout	263 65	
" " " " F. W. Story	60 00	
" " " " A. B. McElroy	41 50	
" " " " Wm. P. Twamley	192 00	
Stenographer to City Solicitor, Miss Ida May Lyeth	185 46	
Messenger " " " Jno. V. Ward	216 12	
Total expenditures		2,428 88
Surplus of credit		$71 12
Balance to surplus, 1903		71 12

Original appropriation, judgments and suits		$10,000 00
Transferred from contingent fund		2,200 00
W. B. Peat, ground rent		250 00
M. Skinner for brief		8 00
Costs in error returned		16 50
N. W. James & Co., judgment for wharfage		218 56
Total credits		$12,693 06

EXPENDITURES.

Emma Beck, judgment	$1,048 33	
Albert N. Horner "	127 03	
Frey & Son "	78 80	
H. P. Richardson "	77 20	
Isabella Walthan "	40 00	
Harry S. Walthan "	25 00	
Rosalie Tregor "	200 00	
M. O. Tregor "	100 00	
J. Haunert "	60 00	
Wm. H. Zell "	250 00	
Thos. C. Ruddell, Assignee "	250 00	
W. W. Spence "	50 00	
Mary Wahl "	125 00	
Ed. Wahl "	125 00	
Ann E. Hebrews "	53 00	
Lilly Reynolds, *et al* "	50 00	
Mary E. Lynch "	50 00	
Jennie Carberry, *et al* "	50 00	
Edw. C. Eichelberger, Atty. "	375 00	
Isaac Benesch "	25 00	
Peter and Mary Akers "	25 00	
A. J. Robinson, *et al* "	125 00	
Geo. W. Graham "	25 00	
James McDongal "	15 00	
Lee S. Meyer, Attorney "	50 00	
Thos. J. Lindsay "	20 00	
Frank J. Caugbry "	20 00	
Ellen McFarland "	725 00	
Margaretha Hagedon "	507 08	
R. C. Michael & Son "	100 00	
Frank M. Barrett "	74 70	
J. C. Weaver "	93 12	
Wm. M. Ballu, Attorney "	150 00	
Chas. F. Harley, Attorney "	75 00	
Chas. F. Harley, Attorney "	750 00	
Maryland Pavement Co. "	2,500 00	
Thos. Meehan & Sons "	294 14	
Thos. Mackenzie, Attorney "	200 00	
Chris. Rosenbrick, *et al* "	56 10	
Jno. C. Kumpf, Attorney "	60 00	
Jno. C. Kumpf, Attorney "	80 00	
Jno. C. Kumpf, Attorney "	80 00	
Jno. C. Kumpf, Attorney "	180 00	
Jas. L. McAllister, Attorney "	650 00	
Edward Hess "	28 18	
Ed. Walter Hess, "infant" "	53 18	
Transcript copies of record, costs Court of Appeals and local courts	1,244 29	
Printing briefs	194 00	
Magistrates cost	397 55	
Stenographer services	297 17	
Interpreter	56 85	
Expert testimony	285 60	
Total expenditures		12,572 72
Surplus of credit		$120 34
Balance to surplus, 1903		120 34

COMPTROLLER'S DEPARTMENT A—VI (14).

Original appropriation, salaries		$12,600 00

EXPENDITURES.

Salaries to December 1, 1903:		
Comptroller, Jas. H. Smith, 5 months 19 days to May 20, 1903	$1,627 64	
Comptroller, George R. Heffner, 6 months 12 days to December 1, 1903	1,872 36	
Deputy Comptroller, Julius W. Freeman, 12 months to December 1, 1903	2,300 00	
Chief Clerk, Henry C. Hines, 12 months to December 1, 1903	1,608 32	
Assistant Clerk, Harry L. P. Woolf, 12 months to December 1, 1903	1,200 00	
Auditor, Albert M. Collins, 12 months to December 1, 1903	1,200 00	
Auditor, Howard E. Gaither, 5 months 7 days to May 8, 1903	523 98	
Auditor, John R. Bailey, 6 months 21 days to December 1, 1903	667 72	
License Detective, Chas. H. S. Brannan, 12 months to December 1, 1903	999 98	
Stenographer, Wm. M. Jordan, 12 months to December 1, 1903	600 00	
Total expenditures		12,600 00

Original expenditure, expenses	$450 00
Transferred from Contingent Fund	750 00
Total credits	$1,200 00

EXPENDITURES.

Subscription to daily paper and Municipal Journal	$18 27	
Postage	74 74	
Printing annual report	47 05	
Supplementary report	740 10	
Recording deeds and acknowledgments	12 00	
City directory	6 00	
City car tickets for use of office	1 25	
Rubber stamps	12 32	
Special ruled paper	1 50	
Suppers for office force	10 65	
Total expenditures		923 88
Surplus of credit		$276 12
Balance to Surplus, 1903		276 12

RECEIPTS.

Amount brought forward from 1902—sale old tags	$2 25
" " " " 1902—refund U. S. Government	78,066 77
Total	$78,069 02
Balance paid into the city treasury	78,069 02
Sale of lot Mosher and Elm streets	$423 00
Expenses of sale	29 75
Balance	$393 25
Balance carried forward to 1904	393 25

CITY REGISTER'S DEPARTMENT A—VI (14).

Original appropriation, salaries..... $10,700 00

EXPENDITURES.

Salaries to December 1, 1903:		
Register, George N. Numsen, 6 months to June 1, 1903...	$1,650 00	
Register, Harry F. Hooper, 6 months to December 1, 1903.....	1,650 00	
Deputy Register, J. Sewell Thomas, 12 months to December 1, 1903.....	2,300 00	
Chief Clerk, Isaac L. Newman, 12 months to December 1, 1903.....	1,400 04	
Stock Clerk, Edward Brady, 12 months to December 1, 1903.....	1,599 96	
Assistant Clerk, Wm. T. Jones, 12 months to December 1, 1903.....	1,200 00	
Assistant Clerk, Paul Needing, 12 months to December 1, 1903.....	900 00	
Total expenditures.....		10,700 00

Original appropriation, expenses..... $450 00

EXPENDITURES.

Postage.....	$77 00	
Subscriptions to papers.....	12 42	
Subscriptions to coin detector.....	3 00	
Ink for check stamp.....	53	
Meals.....	16 50	
Directory.....	6 00	
Printing postal cards.....	8 00	
Acknowledgments.....	20	
Car tickets.....	5 00	
Rubber stamps.....	13 50	
Annual report.....	38 55	
Atlas.....	20 00	
Duplicator.....	12 50	
Leather bag.....	14 00	
Box for checks and vouchers.....	16 23	
Ink erasers.....	2 75	
Total expenditures.....		246 18
Surplus of credit.....		$203 82
Balance to surplus, 1903.....		203 82

CITY COLLECTOR'S DEPARTMENT A—VI (14).

Original appropriation, salaries	$32,500 00

EXPENDITURES.

Salaries to December 1, 1903:	
Jas. P. Gorter, Collector	$1,688 10
Edward A. Hartman, Deputy Collector	2,300 00
Chas. T. Jenkins, Cashier	1,800 00
Jesse L. Cassard, Assistant Cashier	1,500 00
Wm. H. Russell, Piece Clerk	1,253 03
J. Geo. Frainie, Cash Bookkeeper	1,600 00
Chas. Schwartzhaupt, Bookkeeper	1,600 00
Wm. Linthicum, Transfer Clerk	1,200 00
Geo. H. Mason, Ledger Clerk	1,150 00
O. B. Craig, "	1,250 00
T. H. Bartlett, "	1,150 00
Wm. L. Smith, "	1,150 00
Fred. Koehler, "	550 00
Joshua D. Taylor, "	1,200 00
Nesbith Turnbull, "	1,150 00
Chas. W. Stockett, Jr., "	673 33
M. P. Caughey, "	526 67
H. C. Dean, "	1,150 00
Chas. J. Doyle, "	1,150 00
Thos. E. Davis, "	650 00
Edward Kenney, "	1,150 00
W. C. Harrison, "	1,150 00
Wall H. Fry, "	1,150 00
Jno. F. Hoffman, "	1,150 00
Jno. M. Pope, "	1,200 00
Wm. H. Randle, "	1,150 00
Henry Williams, Collector	311 90
Jno. W. Scott, Piece Clerk	46 97
Robert Patterson, Ledger Clerk	50 00
Jno. T. McGinness, "	50 00
Edward A. Holmes, "	50 00
Wm. S. O'Donnell, "	50 00
Thos. F. Hannon, "	50 00
Chas. S. Moran, "	50 00
P. J. Tewey, "	50 00
B. F. Gallery, "	50 00
N. J. Pfeifer, "	50 00
Jas. M. Huggins, "	3 34
Robt. E. Maloney, "	46 66
H. C. Anderson, "	50 00
Total expenditures	32,500 00

Original appropriation, expenses	$2,000 00
Transferred from Contingent Fund	300 00
Total credits	$2,300 00

EXPENDITURES.

Meals for clerks	$1,235 50
Advertising in sundry papers	510 37
Tax calculator	98 60
Postage	348 67
City directories	42 00
Services of stenographer	15 00
Printing reports, etc	49 86
Total expenditures	2,300 00

APPEAL TAX COURT A—VI (14).

Original appropriation, salaries		$23,200 00

EXPENDITURES.

Salaries to December 1, 1903:

Judge, Conway W. Sams	$2,000 00	
Judge, S. H. Freeburger (resigned October 4, 1903)	1,688 17	
Judge, Wm. H. Brune (appointed October 5, 1903)	311 83	
Judge, Oscar Leser	2,000 00	
Chief Clerk, Frank J. Murphy	1,600 00	
Assistant Clerk, George E. Brown	1,600 00	
Transfer, Writ and Notice Clerk, Clarence W. Biddle	1,200 00	
Stenographer and Clerk, Montford A. De Souza	1,000 00	
Chief Assessor, J. H. Morgan Payne (appointed April 10, 1903)	1,305 00	
Chief Assessor, Daniel C. Coblens (January 1 to April 9, 1903)	495 00	
Deputy Chief Assessor, Daniel C. Coblens (April 10 to December 1, 1903)	1,015 00	
Deputy Chief Assessor, J. C. L. Cole	1,400 00	
Assessor, Samuel B. Fauth	1,200 00	
Assessor, David Stiefel	1,200 00	
Assessor, George R. Cross	1,200 00	
Assessor, Randolph B. Mason	1,200 00	
Assessor, Henry A. Williams	1,200 00	
Assessor, James E. Silcott	1,200 00	
Total expenditures		22,815 00
Surplus of credit		$385 00
Balance to surplus, 1903		385 00

Original appropriation, expenses		$1,675 00

EXPENDITURES.

Daily papers, chronicle, street indexes, etc.	$ 81 77	
Expert testimony, certified copies, law books	237 25	
Mortgage lists and Orphans' Court inventories	333 75	
Drawing plates, paper and binding	377 00	
Transportation and telegraph	258 12	
Stamps and postal cards	128 21	
Directories	12 00	
Stencils	19 15	
Annual report	50 00	
Meals (overtime)	131 25	
Book-case	46 50	
Total expenditures		1,675 00

CITY SEAL.

Total amount received during the year	$10 05
Balance carried forward to 1904	10 05

ELECTIONS A—VI (15).

SUPERVISORS OF ELECTION.

Original appropriation, salaries $15,000 00

EXPENDITURES.

Salaries to December 1, 1903:

Supervisor, Chas. H. Carter, President	$2,499 97	
" Wm. F. Porter	2,499 97	
" James H. McClellan	2,499 97	
Counsel, Bernard Carter	1,200 00	
Chief Clerk, James E. Hubbert	2,099 93	
Messenger, George N. Lewis	816 61	
Temporary Clerk, Leonidas Polk	1,199 93	
" " Howard R. Buckley	1,000 00	
" " John S. Nelson	300 00	
" " John Regan	294 00	
" " Joseph Zinkand	300 00	
" " George T. Mudge	10 00	
" " Jas. T. Fray	11 00	
" " John Duffey	23 00	
" " John Sullivan	23 00	
" " Wm. W. Jubb	9 00	
" " John A. Smith	9 00	
" " N. J. Schoen	4 00	
" " Chas. G. Haslup	8 00	
" " Robt. E. Malone	1 00	
Total expenditures		14,808 38
Surplus of credit		$191 62
Balance to surplus, 1903		191 62

Original appropriation, expenses $4,133 00

EXPENDITURES.

Twine	$ 79 30	
Books	105 00	
City Directory	6 00	
Printing and wrapping paper	30 70	
Car tickets	23 00	
Chesapeake & Potomac telephone	126 50	
Maryland telephone	48 00	
Ballot boxes	3,255 00	
Extra help cleaning ballot boxes and preparing supplies.	15 00	
Candles	45 00	
Typewriting	43 55	
Hauling booths, boxes, etc	142 50	
Hall rent	40 00	
Destroying ballots, etc	39 00	
Postage	38 69	
Total expenditures		3,987 24
Surplus of credit		$145 76
Balance to surplus, 1903		145 76

REGISTRATION, SPRING.

Original appropriation		$16,357 00
EXPENDITURES.		
Stationery	$1,450 03	
Maps	250 00	
Printing and posting	1,425 04	
Clerk hire	825 00	
Hauling	20 00	
Mandamus	142 90	
Booths	2,138 15	
Judges	7,392 00	
Room rent	1,540 00	
Total expenditures		15,183 12
Surplus of credit		$1,173 88
Balance to surplus, 1903		1,173 88

PRIMARY ELECTION, SPRING.

Original appropriation		$19,425 00
EXPENDITURES.		
Printing	$3,360 56	
Candles	43 50	
Hauling	40 00	
Advertising	2,035 35	
Judges	7,392 00	
Clerks	1,848 00	
Room rent	3,080 00	
Election booths	1,615 00	
Total expenditures		19,414 41
Surplus of credit		$10 59
Balance to surplus, 1903		10 59

ELECTION, SPRING.

Original appropriation		$20 675 00
EXPENDITURES.		
Stationery	$700 00	
Candles, tacks, etc	62 10	
Printing and posting	2,063 24	
Advertising	3,786 87	
Lamps and oil	41 95	
Booths	1,620 00	
Clerk hire	18 00	
Judges	7,314 00	
Clerks	1,818 00	
Room rent	3,080 00	
Total expenditures		20,504 16
Surplus of credit		$170 84
Balance to surplus, 1903		170 84

REGISTRATION, FALL.

Original appropriation		$55,804 00
EXPENDITURES.		
Printing and posting lists of voters	$3,805 06	
Stationery	821 75	
Lamps and oil	44 05	
Extra help (clerk hire)	322 00	
Advertising	6,982 11	
Costs, mandamus cases	319 50	
Judges	36,960 00	
Room rent	6,160 00	
Total expenditures		55,414 47
Surplus of credit		$389 53
Balance to surplus, 1903		389 53

PRIMARY ELECTION, FALL.

Original appropriation		$20,925 00
EXPENDITURES.		
Ballot boxes	$1,570 80	
Advertising	2,808 26	
Stationery	3,063 18	
Erecting booths	1,145 68	
Judges	7,392 00	
Clerks	1,848 00	
Room rent	3,080 00	
Total expenditures		20,907 92
Surplus of credit		$17 08
Balance to surplus, 1903		17 08

ELECTION, FALL.

Original appropriation		$17,879 00
EXPENDITURES.		
Stationery	$87 00	
Candles and tacks	49 52	
Cab hire	21 50	
Printing and posting	2,130 63	
Advertising	2,672 84	
Erecting booths	1,747 64	
Judges	3,696 00	
Clerks	3,696 00	
Room rent	3,090 00	
Total expenditures		17,181 13
Surplus of credit		$697 87
Balance to surplus, 1903		697 87

Assessments received from candidates and delegations for the Primary Election, held in April, 1903:

122 Candidates at $25.00 each	$3,050 00	
192 Delegations at 5.00 each	960 00	
Total receipts Spring Primary		$4,010 00

CANDIDATES.

James Glen,	Duke Bond,	John McFaul, Sr.,
George Konig,	Charles R. Lamm,	William L. Wegwerth,
Samuel Regester,	C. Albert Kollmeyer,	Thomas Skinner,
William H. Parker,	James H. Marine,	Joseph T. Steinaker,
William A. Wheatley,	Dr. Henry Lupus,	William W. Radcliffe,
Arthur G. Watson,	Dr. Edwin C. Livingston,	Henry W. Laumann,
John H. Hall,	William I. Clendenin,	Louis R. Breeback,
William E. Anderson,	Andrew J. Utz,	William H. Hildebrand,
George W. Bumgarner,	Louis A. Dieter,	John Stonewall J. Healy,
J. Barry Mahool,	Harry F. Hooper,	Adolphus H. Weaver,
William B. Smith,	Michael J. Gaffney,	William Lentz,
James J. Ellis,	Henry P. Hoffman,	Charles E. Blaney,
Christian A. Helwig,	John A. Janetzke,	John Hubert,
Louis D. Green,	Robert McClintock,	John H. Short,
Thomas S. Bell,	Joseph Hart,	B. Frank Kelley,
William D. Platt,	James Davis,	Roger T. Gill,
George R. Heffner,	Robert L. Stevens,	Frank L. Hiss,
E. Clay Timanus,	Frank C. Wachter,	William J. Lang,
James H. Smith,	John J. Watson,	William H. Wrightson,
Robert M. McLane,	Evan H. Morgan,	Albert S. Gill,
W. Starr Gephart,	William P. Freeny,	George L. DeVed,
Francis E. Yewell,	Stephen C. Little,	Joseph W. Hellman,
George Stewart Brown,	Samuel H. Tattersall,	John F. Thomas,
John A. Flack,	Joseph Seidenman,	H. Brune Bowie,
Adolph I. Nathanson,	John W. Gilroy,	Peter C. DeHentzen,
Ferdinand C. Latrobe,	Harry W. Nice,	Isaac M. Flory,
John W. Martin,	R. Dorsey Coale,	Daniel Conroy,
Beverly W. Smith,	Frederick Megenhard,	Isaac M. Pruzan,
Lewis P. Kornmann,	Thomas G. Hayes,	Samuel Affelder,
Henry A. Ulrich,	John G. Wehage,	Henry J. Bentzel,
Edward L. Rowley,	William J. Hooper,	Frank J. Pentner,
John C. Minnis,	Bernhard Dietz,	John P. Brandau,
William E. Tilghman,	John Krommiller,	George Wittmer,
Hiram Watty,	William Roes,	Bushrod M. Watts,
William Kalb,	John H. Fricks,	Max Myers,
Charles H. Heinzeman,	John T. Ochs,	Edward L. Wolf,
Henry J. C. Hoffman,	John Hensel, Jr.	Irvin Ebaugh,
Albert M. Sproesser,	Seth S. Ullrich,	Jacob Fizone,
Conrad F. Kraeter,	Harry K. Brooks,	James E. Byrd,
J. Edward Custy,	Bernard J. Lee,	William E. Hohnberger,
Wm. H. Weissager,	James B. Guyton,	

Delegates on the part of Platt ticket	$480 00
Delegates on the part of Wachter ticket	480 00

Primary Election held in September, 1903:

69 Candidates at $25.00 each	$1,725 00	
160 Delegations at 5.00 each	845 00	
Total receipts Fall Primary		$2,570 00

CANDIDATES.

Raleigh C. Thomas,	P. T. Barry,	John Gill, Jr.,
Albert S. J. Owens,	James A. Dawkins,	J. T. McCarthy,
Henry Stark,	Samuel J. Rickets,	Stanley A. Foutz,
James G. Linthicum,	John L. V. Murphy,	Harry K. Brooks,
Daniel Giraud Wright,	John T. Couglar,	Chas. G. Cromwell,
John Upshur Dennis,	Martin F. Healy,	Conrad Kraeter,
Edwin Warfield,	Timothy Bresnan,	Geo. L. Deved,
William J. Garland,	John D. Nugent,	Geo. A. Albaugh,
Meyer D. H. Lipman,	James Young,	Conrad Dickhaut,
William H. Harrison,	Charles W. Perkins,	James T. Kerns,
Henry Arthur Stump,	Edward L. Ward,	Leonidas Polk,
George C. Morrison,	H. B. Scrimger,	Martin Reynolds,
Louis J. Roth,	Charles H. Brunier,	James E. Hubbert,
John J. Watson,	John Kahl,	Bernard Meehan,
William J. Robertson,	R. E. Lee Hall,	Charles J. Bouchet,
Thomas B. McAllister,	J. Charles Linthicum,	Geo. R. Truelove,
Brent Waters,	*Charles E. Shanahan,	G. M. Johnson,
Edward I. Clark,	Daniel J. Loden,	Emil Goetzke,
George W. Moore,	Jacob Grauer,	Wm. I. Norris,
Ward P. Littig,	John J. Murn,	Henry L. Brack,
James McCluskey,	Timothy Casey,	George Kothe,
J. Wesley White,	James O. Durham,	George Whitelock,
Eugene E. Grannan,	Charles Grant,	George F. Jones.

169 Delegations.

SUMMARY.

Amount brought forward from 1902	$ 45 00	
Amount received for assessments for Spring Primary Election	4,010 00	
Amount received for assessments for Fall Primary Election	2,570 00	
Total receipts		$6,625 00
Amount carried forward to 1904		6,625 00

CITY LIBRARIAN A—VI (16).

Original appropriation $3,150 00

EXPENDITURES.

Salaries to December 1, 1903:

City Librarian, Saml. H. Randall, 10 months and 4 days.	$1,266 13	
" " Wilbur F. Coyle, 1 month and 27 days..	233 87	
First Assistant Librarian, Wright S. Sudler, 6 months..	450 00	
" " " Fredk. B. Hoffman, 6 months.	450 00	
Second " " Fredk. B. Hoffman, 6 months.	375 00	
" " " Fredk. Schultz, 5 months	312 50	
Total expenditures		3,087 50
Surplus of credit		$62 50
Balance to Surplus, 1903		62 50

Original appropriation, expenses	$14,200 83
Transferred from Contingent Fund	574 00
Total credits	14,774 83

EXPENDITURES.

Departments.	*Stationery.*	*Printing.*	*Books.*	*Total.*
Appeal Tax Court	$115 20	$36 00	$147 80	$299 00
Baltimore City Jail	154 72	25 88	84 76	265 36
Board of Awards	4 50	.....	.....	4 50
" " Estimates	8 25	1 50	.....	9 75
City Collector	222 35	1,525 26	585 25	2,332 86
" Comptroller	96 13	113 76	63 20	273 09
" Engineer	338 21	127 75	202 86	668 82
" Library	155 11	799 09	69 75	1,023 95
" Register	86 03	69 00	278 50	433 53
" Solicitor	155 05	45 60	68 20	268 85
Collector of Water Rents and Licenses	.....	149 25	.....	149 25
Commissioners of Free Public Baths	.....	42 50	.....	42 50
Commissioners of Opening Streets	4 84	11 50	.....	16 34
Commissioners of Street Cleaning	60 31	154 00	82 75	297 06
Fire	171 20	184 50	623 50	979 20
Harbor Board	47 48	59 50	1 80	108 78
" Masters	.....	3 85	.....	3 85
Health	963 49	977 25	903 80	2,844 54
Inspector of Buildings	78 49	144 75	199 45	420 69
Mayoralty	74 09	101 00	8 10	183 19
*Municipal Statistician	8 52	321 40	3 45	333 37
School Board	.....	2,726 98	136 75	2,863 73
Superintendent of Lamps and Lighting	42 51	82 25	45 10	169 86
Superintendent of Public Buildings	41 03	22 75	25 50	89 28
Supervisors of City Charties	174 24	291 16	138 89	604 29
Topographical Survey	19 19	9 00	24 00	52 19
Totals	$3,020 94	$8,025 48	$3,691 41	$14,737 83

Total expenditures	$14,737 83
Surplus of credit	$37 00
Balance to surplus, 1903	37 00

ADVERTISING LAWS A—VI (16).

Original appropriation	$2,000 00

EXPENDITURES.

Publishing ordinances in sundry papers during the year	1,996 84
Surplus of credit	$3 16
Balance to surplus, 1903	3 16

City Librarian Revenue.

Sales city codes, charters, etc	$81 50

CITY HALL AND PUBLIC BUILDINGS A—VI (17).

Original appropriation, salaries City Hall..... $14,820 00

EXPENDITURES.

Salaries to December 1, 1902:

Superintendent Public Buildings, Frederick T. Hellman, 10 months and 14 days	$1,266 13	
Superintendent Public Buildings, Isaac A. Miller, 1 month and 27 days	233 87	
Clerk to Superintendent and Janitor, B. Howard Scott.	900 00	
Watchman, Edward L. Marriott, 10 months	600 00	
" Patrick Nixon, 2 months	120 00	
" Michael J. Cullen	720 00	
" William J. Burke, 7 months	420 00	
" John G. Scott, 3 months and 6 days	191 61	
" James J. Callahan, 1 month and 21 days	100 64	
Fireman, John McMahon, 10 months and 27 days	815 32	
" William T. Harrington, 1 month and 4 days.	84 68	
" Lucien O'Conner, 9 months	675 00	
" Curtis B. Simonds, 3 months	225 00	
" Joseph P. Scott, 1 month	75 00	
" John H. Stutt, Sr., 11 months	825 00	
Laborer, Thomas Connelly	520 00	
" John Armiger, 10 months	433 33	
" Lucien O'Conner, 1 month and 17 days	67 89	
" Robert Milanich, 10 days	14 44	
Elevator Conductor, A. B. Montague	720 00	
Superintendent Charwomen, Mrs. Lillie Fitzgerald	480 00	
Window-washer, Joseph Raymond	520 00	
Charwoman, Eliza Cunningham	300 00	
" Frances Furst	300 00	
" Fannie Florinjeck	300 00	
" Ellen Kelly	300 00	
" Ellen Haney	300 00	
" Sarah Hudgins	300 00	
" Kate Maxon	300 00	
" Bridget Gahgan	300 00	
" Mary Keys	300 00	
" Mary Kelly	300 00	
" Rose McCaffery	300 00	
" Catherine Slaughter	300 00	
" Ellen Donnegan	300 00	
" Jennie Sank	300 00	
" Annie Strohman	300 00	
" Sophia Cartlich	300 00	
Total expenditures		$14,807 91
Surplus of credit		$12 09
Balance to surplus, 1903		12 09

Original appropriation, expenses		$8,950 00
Balance brought forward from 1902		1,927 94
Total credits		$10,877 94

EXPENDITURES.

Lighting—Gas and electricity	$831 08	
General Supplies	1,498 82	
" Repairs	481 25	
Laundrying towels, sheets, etc	152 43	
Furniture repairs	566 60	
Ice	285 40	
Curtains and outside blinds	694 20	
Carpets, linoleums, etc	1,424 31	
Fuel—coal and wood	3,629 70	
Carpet cleaning	256 67	
Incidentals and labor	407 14	
New furniture	650 34	
Total expenditures		10,877 94

CITY HALL ANNEX A—VI (17).

Original appropriation, salaries		$2,250 00

EXPENDITURES.

Salaries to December 1, 1903:

Janitor and Fireman, John B. Weilage	$630 00	
Watchman, Robt. W. Hays	720 00	
Charwoman, Clementine Anderson	300 00	
" Mary Whalen	300 00	
" Dollie Reid	300 00	
Total expenditures		2,250 00

Original appropriation, expenses		$4,300 00
Balance brought forward from 1902		313 60
Total credits		$4,613 60

EXPENDITURES.

Supplies	$409 18	
Ice	65 50	
Lighting—gas and electricity	474 09	
Coal and wood	692 43	
Furniture and carpets	1,007 60	
Rent of annex building	1,800 00	
General repairs	96 45	
Incidentals	68 35	
Total expenditures		4,613 60

COURTHOUSE A—VI (17).

Original appropriation, salaries..... $33,565 00

EXPENDITURES.

Salaries to December 1, 1903:

Asst. Supt. Public Bldgs., Dr. Samuel A. Keen, 8 mos.	$800 00	
" " " " John F. Leonard, 4 mos.	400 00	
Electrician, Samuel L. Ruley, 11 months and 12 days..	1,140 00	
" Lawrence J. McCormick, 18 days.....	60 00	
" Lewis B. Bell, 1 year.....	900 00	
Engineer, Richard Stanton, 11 months 7 days.....	1,123 34	
" John E. Graff, 23 days.....	76 66	
" Richard T. Knox, 1 year.....	900 00	
" Henry Hensen, 1 year.....	900 00	
Fireman, William Curley, 1 year.....	900 00	
" John T. Montague.....	900 00	
" Henry Roehner, 11 months 26 days.....	890 00	
" William J. Gaunt, 4 days.....	10 00	
Oiler, William J. Kniese, 11 months and 9 days.....	565 00	
" Joseph P. Lennon, 20 days.....	33 33	
" Thomas H. Hurst.....	600 00	
" George Rockel, 7 months at $50.....	350 00	
" William J. Shadrick, 5 months.....	250 00	
Coal Passer, Harold Campbell, 365 days at $1.66⅔ per day	608 33	
" James Ratty, 365 " 1.66⅔ "	608 33	
" F. Von Minchow, 365 " 1.66⅔ "	608 33	
Elevator Conductor, Michael Farrel, 1 year.....	720 00	
" " William H. Poske.....	720 00	
" " John V. McGraw.....	720 00	
" " Charles Hawkins.....	720 00	
" " James B. Corbett.....	720 00	
Janitor, John G. Scott, 8 months and 25 days.....	528 39	
" William A. Miller, 3 months and 6 days.....	191 61	
Watchman, Charles R. Smith, 5 mos. at $60 per mo.	300 00	
" William A. Miller, 2 " 60 "	120 00	
" William J. Burke, 4½ " 60 "	270 00	
" Charles D. Moore, Jr. 1½ " 60 "	30 00	
" John T. Feehan, 8 " 60 "	480 00	
" L. H. Thiess, 4 months.....	240 00	
" Henry F. Kroeger, 1 year.....	720 00	
" Alvin E. Worley, 1 "	720 00	
" Henry C. Schumachir, 6 mos. and 14 days.	388 00	
" John A. Mewshaw, 29 days at $60 per mo.	57 16	
" William Fink, 4 months and 18 days.....	274 84	
Laborers, Stephen Arata, 1 year.....	520 00	
" George W. Parks.....	520 00	
" John T. Lyons.....	520 00	
Furniture polisher, Walter A. Sauerwein.....	600 00	
Marble polisher, R. M. P. Woodward.....	580 00	
" " Frank Cain.....	580 00	
Window washer, Frank Paterri.....	520 00	
Court matron, Mary Malone, 1 year.....	300 00	
Supt. Charwomen, Theresa Fitzpatrick, 11½ mos. at $40.	460 00	
Margaret Giles, ½ month.....	20 00	
Charwoman, Margaret Giles, 11½ months at $25	287 50	
" Mary T. M'Laughlin, ½ month.....	12 50	
" Catherine McNulty, 2 months 10½ days..	57 05	
" Hannah Pennington, 9 months 16½ days.	239 73	
" Lizzie Grant, 2 months.....	50 00	
" Mary L. Finn, 10 months.....	250 00	
Amounts carried forward.....	$26,060 10	$33,565 00

Amounts brought forward	$26,060 10	$33,565 00
Charwoman, Margaret Barrett, 8 months	200 00	
" Tenie Thomas, 4 months	100 00	
" Mary Rigney	297 60	
" Kate Massie	300 00	
" Kate Rausch	299 60	
" Ellen Rockel	300 00	
" Kunagunda Dougherty	300 00	
" Mary Twist	300 00	
" Annie Lembeck	300 00	
" Kate Connelly	297 99	
" Mollie Maffitt	299 20	
" Grace Smith	300 00	
" Margaret White	300 00	
" Maggie Jacobs	300 00	
" Kate Haggerty	297 85	
" Catherine Dunn	300 00	
" Helen Redmund	300 00	
" Miranda Chandler	300 00	
" Julia A. Proffin	300 00	
" Mary Manion	300 00	
" Catherine Weber	300 00	
" Theresa Schone	300 00	
" Ellen Leonard	300 00	
" Annie Regan	300 00	
" Maggie Sumwalt	300 00	
" Mary Solan	300 00	
Total expenditures		33,552 34
Surplus to credits		$12 66
Balance to surplus, 1903		12 66
Original appropriation, expenses		$17,250 00

EXPENDITURES.

General supplies	$2,090 59	
Fuel—coal and wood	12,585 40	
Ice	277 21	
Repairs to machinery, oil and grease	628 29	
Towel service	78 60	
Electric lamps, etc	145 83	
General repairs	333 58	
Carpets, etc	94 50	
Furniture	1,016 00	
Total expenditures		17,250 00

LAVATORY FOR WOMEN, CITY HALL A—VI (17).

Original appropriation		$1,000 00

EXPENDITURES.

Carpenter work	$144 25	
Plastering	118 50	
Plumbing	380 00	
Metal tiling	87 00	
Marble tiling	199 00	
Setting tiles	71 25	
Total expenditures		1,000 00

REVENUE.

Sale of old paper	$30 85	
" " " barrel	1 00	
" " " marble	37 00	
Total revenue		$68 85
Balance carried forward to 1904		68 85

MURAL DECORATIONS, NEW COURTHOUSE A—VI (17).

Balance brought forward from 1902	$3,300 00

EXPENDITURES.

Paid Edwin Howland Blanchfield in full for mural painting	3,300 00

LIQUOR LICENSE COMMISSION A—VI (18).

Original appropriation, salaries	$11,000 00

EXPENDITURES.

Commissioner, Max Ways	$2,000 00	
" William H. Jones	2,000 00	
" Campbell W. Pinkney	1,155 51	
" Eugene E. Grannan	44 44	
Counsel, Alexander H. Robinson	1,200 00	
Chief Clerk, Wm A. Johnson	1,400 00	
" " John R. Hudgins	1,200 00	
" " Harry T. Thomas	1,200 00	
Total expenditures		10,199 95
Surplus of credit		$800 05
Balance to surplus, 1903		800 05

Original appropriation, expenses	$3,919 50

EXPENDITURES.

Advertising lists of applicants for licenses	$3,091 28	
Stenographer, Miss Margaret McDonnell	295 00	
Towel service	13 50	
Chesapeake & Potomac and Maryland Telephones	202 00	
Postage	36 01	
Books, stationery and printing	281 71	
Total expenditures		3,919 50

REVENUE.

Amount brought forward from 1902	$20 00
Balance paid into the city treasury	20 00

TOPOGRAPHICAL SURVEY A—VI (18).

Original appropriation, salaries		$6,090 00
EXPENDITURES.		
(Salaries to December 1, 1903:		
Chief Engineer, Joseph W. Shirley	$1,500 00	
Asst. " Robert N. Hanna	1,200 00	
Draftsman, Henry Laessig	900 00	
Instrument Man, Montague Blundon	870 00	
Rodman, George W. Sauner	720 00	
" Claude R. Whitaker	600 00	
Total expenditures		5,790 00
Surplus of credit		$300 00
Balance to surplus, 1903		300 00
Original appropriation, expenses		$180 00
EXPENDITURES.		
Drawing instruments and paper	$ 5 56	
Postage	5 00	
Printing annual report	6 50	
Repairs	3 00	
Map case	12 00	
Car tickets	30 00	
Iron pipe	6 95	
Railroad fare to Annapolis	2 50	
Total expenditures		71 51
Surplus of credit		$108 49
Balance to surplus, 1903		108 49
REVENUE.		
Sale of maps of city, etc		$101 25
Balance paid into city treasury		101 25

BOARD OF ESTIMATES A—VI (18).

Original appropriation		$1,000 00
EXPENDITURES.		
Stenographer and typewriter	$399 96	
Printing appropriation books for 1903	162 50	
Advertising Ordinance of Estimates in two newspapers	394 65	
Total expenditures		957 11
Surplus of credit		$42 89
Balance to surplus, 1903		42 89

BOARD OF PUBLIC IMPROVEMENTS A—VI (18).

Original appropriation		$600 00
EXPENDITURES.		
Services, clerk and stenographer	$500 00	
Rubber stamps	3 25	
Total expenditures		503 25
Surplus of credit		96 75
Balance to surplus, 1903		96 75

MUNICIPAL STATISTICIAN A—VI (18).

Original appropriation, salary	$1,500 00

EXPENDITURES.

Municipal Statistician, James R. Horner, 12 months	1,500 00

Original appropriation, expenses	$2,500 00
Car tickets returned	1 50
Total credits	$2,501 50

EXPENDITURES.

Clerk, J. Harry Duvall	$1,100 00	
Collecting statistics	180 00	
Postage	40 78	
Transportation	10 95	
Newspapers	6 02	
Printing annual report	22 50	
City directory	6 00	
Frames for maps	6 00	
Total expenditures		1,372 25
Surplus of credit		$1,129 25
Balance to surplus, 1903		1,129 25

MUNICIPAL TELEPHONE EXCHANGE A—VI (18).

Original appropriation	$6,993 00
Received from Collector Water Rents and Licenses for telephone	47 80
" " Engineer Water Department for telephone	591 60
" " Park Board for telephone	285 00
" " Electrical Commission for telephone	126 00
Total credits	$8,043 40

EXPENDITURES.

Maryland Telephone and Telegraph Co. service	$5,376 95	
C. & P. Telephone for City Collector	93 75	
" " " Health Department and Quarantine Station	106 91	
C. & P. Telephone for Municipal Statistician	12 16	
Southern Electric Co. supplies	132 00	
Total expenditures		5,721 77
Surplus of credit		$2,321 63
Balance to surplus, 1903		2,321 63

CAR TICKETS A—VI (18).

Inspector of Buildings	$880 50
Health Department	820 00
Electrical Commission	500 00
Street Cleaning Department	490 00
Free Bath Commission	125 00
Engineer Water Department	1,527 50
Transportation of poor	5 00
Superintendent of Lamps	120 00
Jail	5 00
Park Board	40 00
City Engineer's Department	1,113 00
Topographical Survey	30 00
Mayoralty	21 50
Superintendent of Public Buildings	21 50
Collector Water Rents and Licenses	40 00
Quarantine	40 00
Commissioners for Opening Streets	5 00
Appeal Tax Court	90 00
Supervisors of Elections	18 00
Comptroller's Department	1 50
Public School Department	150 00
Harbor Board	10 00
Dispensary service	25 00
City Register's Department	5 00
Supervisors of Charities	200 00
Car tickets on hand January 1, 1904	189 00
	$6,435 75

Balance from 1902	$ 184 25	
Expenditures, 1903	6,231 50	
		6,435 75

CONTINGENT FUND.

Original appropriation $50,000 00

EXPENDITURES.

Transferred to R. J. Biggs & Co	$ 85 62	
" " Sunwalt Run culvert	1,400 00	
" " water for fire plugs, Carroll	50 00	
" " street carts and men	2,126 50	
" " sweepers and scrapers	1,176 24	
" " tools and repairs	197 26	
" " Fannie E. Schaefer, allowance	300 00	
" " Thos. Hughes, Trustee	118 70	
" " Comptroller's Department, expenses	750 00	
" " sweeping machines, sprinklers, etc	650 00	
" " H. C. Bowman	75 00	
" " J. N. Cooper	8 00	
" " Calvert street, grading and kerb 25th street to Gilmore lane	81 63	
" " sewer for School No. 69	4,251 50	
" " O. W. Connet, Assistant City Engineer, selling old material	100 00	
" " barracks at Quarantine	7,195 50	
" " M. Franke, widow, allowance	300 00	
" " salaries, school, Group M	4,323 61	
Amounts carried forward	$23,189 56	$50,000 00

Amounts brought forward	$23,189 56	$50,000 00
Transferred to pavement School No. 69	650 00	
" " Bay View Asylum expenses	800 00	
" " Diary City Council expenses	3,508 45	
" " City Collector expenses	300 00	
" " paving Hoffman street	706 65	
" " judgments and suits	2,200 00	
" " renewal of garbage (contract)	629 95	
" " Juvenile Court expenses	100 00	
" " repairing drains in Lipps' lane	160 00	
" " maintenance, bridges and culverts	1,775 00	
" " repairs, city property consolidated	1,000 00	
" " City Librarian expenses	574 00	
" " Mayoralty expenses	100 00	
" " repairs, roads, streets, etc	1,000 00	
" " Magistrates salaries	250 00	
" " Health Department	8,488 91	
" " Viaduct avenue opening	4,507 57	
Total expenditures		49,940 09
Surplus of credit		$59 91
Balance to surplus, 1903		59 91

POLICE DEPARTMENT A—VI (21).

Original appropriation, salaries $944,004 00

EXPENDITURES.

Commissioner, George M. Upshur	$2,500 00	
" John T. Morris	2,500 00	
" Edwin H. Fowler	2,500 00	
Secretary, Josiah A. Kinsey	2,000 00	
Assistant Secretary, Robert G. Claypoole	1,200 00	
Counsel, Alonzo L. Miles	2,000 00	
Marshal, Thomas F. Farnan	2,500 00	
Deputy Marshal, James Manning	2,000 00	
Clerk to Marshal, John Swikert, Jr	1,300 00	
Police physician, John S. Bishop	1,000 00	
" John T. McCarthy	1,000 00	
" Pinkney L. Davis	1,000 00	
9 Captains ... at $30 per week	14,040 00	
19 Lieutenants ... at 25 "	24,700 00	
25 Detectives ... at 23 "	29,886 86	
16 Round sergeants ... at 23 "	19,073 58	
110 Squad sergeants ... at 20 "	110,980 02	
700 Patrolmen ... at 18 "	653,110 29	
16 Turnkeys ... at 18 "	14,937 43	
8 Station-house clerks ... at 18 "	7,318 29	
50 Probation officers ... at 12 "	27,428 43	
1 Supt. of matrons ... at 15 "	780 00	
16 Matrons and subs ... at 12 "	10,985 00	
Deficiency of 1902 ... at	2,647 68	
Total expenditures		937,423 58
Surplus of credit		$6,580 42
Balance carried forward to Pension Fund, 1904		6,580 42

Original appropriation, expenses..... $67,335 00

EXPENDITURES.

Gas and electric lighting	$4,301 78	
Gas governors	81 00	
Badges, numbers, etc	172 17	
Ice	300 34	
Fuel	4,825 36	
Stationery and printing	1,845 28	
Advertising	554 65	
Revolvers and ammunition	49 24	
Electric supplies and maintenance	5,491 90	
Clubs, belts and holsters	45 00	
Station house supplies, cleaning, etc	4,850 28	
Rental of stables	695 26	
Horses	1,980 23	
Harness and wagons	2,074 48	
Hostlers	5,383 50	
Miscellaneous, stable expenses	1,062 45	
Horse shoeing	2,510 25	
Feed	11,686 53	
Meals for prisoners	1,948 77	
Headquarters expenses	3,768 28	
Telephones	1,268 08	
Bicycles and maintenance	3 50	
Repairs to station houses	5,787 25	
Police boat Lannan:		
Repairs	$1,664 61	
Supplies	1,402 79	
Engineers and firemen	3,432 00	
Insurance	150 00	6,649 40
Total expenditures		67,334 98
Surplus of credit		$ 02
Balance to surplus, 1903		02

POLICE EXAMINERS.

Original appropriation, salaries..... $5,500 00

EXPENDITURES.

Salaries to December 1, 1903:		
Police examiner, John Hannibal	$1,433 34	
" John Y. Bratton	1,433 33	
" Chas. H. Linville	1,433 33	
Secretary to police examiners, Henry Fenge	1,200 00	
Total expenditures		5,500 00

Original appropriation,, expenses..... $682 00

EXPENDITURES.

Printing and stationery	$201 45	
Advertising	49 30	
Cleaning typewriter	60	
Cushion keys for typewriter	3 50	
City directory	6 00	
Telephone	49 50	
Assistance	169 50	
Total expenditures		479 85
Surplus of credit		$202 15
Balance to surplus, 1903		202 15

FIRE DEPARTMENT A—VI (22).

Original appropriation, salaries..... $386,350 00

EXPENDITURES.

Commissioner, A. Roszel Cathcart	$ 1,000 00	
" John H. Sirich	844 09	
" Edward M. Parrish	1,000 00	
" George W. Gail, Jr	155 91	
Secretary and clerk, Pinkney W. Wilkinson	1,500 00	
Assistant Clerk, Walter E. Hill	900 00	
Chief engineer, George W. Horton	2,499 84	
District " James A. Campbell	1,400 00	
" " August Emrich	1,400 00	
" " Frederick Branan	1,400 00	
" " Fielding H. Lucas	1,400 00	
" " Levin H. Burkhardt	1,400 00	
" " E. Louis Shipley	1,400 00	
Supt. of Machinery, Thomas H. Meushaw	1,400 00	
" Fire Alarm Telegraph, James B. Yeakle	1,800 00	
No. 1 Engine Company	10,285 21	
" 2 " "	10,617 45	
" 3 " "	10,293 70	
" 4 " "	11,068 36	
" 5 " "	9,797 00	
" 6 " "	10,598 54	
" 7 " "	10,297 83	
" 8 " "	9,798 10	
" 9 " "	10,288 99	
" 10 " "	10,292 38	
" 11 " "	10,292 78	
" 12 " "	9,785 80	
" 13 " "	10,289 97	
" 14 " "	9,793 46	
" 15 " "	20,529 50	
" 16 " "	11,495 74	
" 17 " "	10,597 38	
" 18 " "	10,595 70	
" 19 " "	10,599 03	
" 20 " "	10,597 34	
" 21 " "	10,588 14	
" 22 " "	10,575 15	
" 23 " "	10,584 00	
" 1 Hook and Ladder Company	10,095 87	
" 2 " " "	10,075 74	
" 3 " " "	10,393 06	
" 4 " " "	10,890 50	
" 5 " " "	10,399 04	
" 6 " " "	10,392 96	
" 7 " " "	4,599 96	
" 8 " " "	4,599 29	
" 9 " " "	4,098 80	
" 10 " " "	10,395 67	
" 11 " " "	10,896 49	
" 1 Chemical Engine Company	2,499 65	
" 2 " " "	2,500 00	
" 3 " " "	2,499 79	
Telegraph Department	12,757 84	
Total expenditures		386,256 04
Surplus of credit		$93 96
Balance to surplus, 1903		93 96

FIRE DEPARTMENT.

Original appropriation, expenses		$114,410 00
Dufur & Co., refund paid in error		2 86
Total credits		$114,412 86

EXPENDITURES.

Apparatus	$5,989 47	
Apparatus repairs	6,284 25	
Accident	1,719 62	
Feed	21,885 84	
Fuel	8,841 82	
Furniture	2,665 15	
Harness	700 80	
Horseshoeing	4,725 25	
Hose	4,240 00	
Horses	4,080 00	
Wharf rent	600 00	
Electricity and gas	1,879 05	
Office expenses	832 23	
Life insurance	2,565 00	
Miscellaneous	9,909 92	
Washing	3,168 00	
Pensioners	11,166 24	
Sick	4,260 25	
Fire-alarm telegraph	13,036 27	
Store-room	4,873 70	
Fire-alarm boxes	990 00	
Total expenditures		114,412 86

SALARIES AND EQUIPPING NEW ENGINE COMPANY No. 25 A—VI (22).

Original appropriation	$18,580 00

EXPENDITURES.

Salaries	$4,343 45	
Apparatus	9,650 91	
Furniture	1,018 43	
Harness	409 85	
Miscellaneous Supplies	644 53	
Storeroom Supplies	398 83	
Insurance	4 50	
Horses	1,837 50	
Telegraph Supplies	272 00	
Total expenditures		$18,580 00

WATER FOR FIRE PLUGS AT CARROLL A—VI (22).

Original appropriation	$400 00
Transferred from Contingent Fund	50 00
Total credits	$450 00

EXPENDITURES.

Baltimore County Water and Electric Company, 18 plugs 1 year	450 00

EQUIPPING ENGINE COMPANY No. 24 A—VI (22).

Original appropriation		$15,000 00
EXPENDITURES.		
Apparatus	$9,693 81	
Furniture	1,029 64	
Harness	450 20	
Miscellaneous Supplies	596 18	
Storeroom Supplies	472 78	
Horses	1,837 50	
Telegraph Supplies	919 89	
Total expenditures		15,000 00

SALARIES ENGINE COMPANY No. 24.

Original appropriation		$5,300 00
EXPENDITURES.		
Salaries paid the company		4,849 13
Surplus of credit		$450 87
Balance to surplus, 1903		450 87

BUILDING ENGINE HOUSE No. 23 A—VI (22).

Original appropriation		$11,000 00
Amount brought forward from 1902		9,222 07
Total credit		$20,222 07
EXPENDITURES.		
C. H. Quigley, commission on purchase of lot	$293 75	
J. K. E. Diffenderffer, blue prints	12 24	
C. E. Parlett, contractor on account building	19,452 06	
P. Flanigan, stone, hauling and labor	207 50	
City Engineer, paving	119 08	
Geo. W. Walther & Co., bronze tablet	58 75	
Thos. C. Basshor & Co., pipe and repairing pipe	24 60	
Kingsbury-Samuel Electric Co., installing light	9 84	
C. W. Carll, galvanized iron work	36 25	
Wilson Bros., engine house tablet pattern	8 00	
Total expenditures		20,222 07

BUILDING TRUCK HOUSE No. 7 A—VI (22).

Original appropriation		$1,020 59
Amount brought forward from 1902		4,025 51
Total credits		$5,046 10
EXPENDITURES.		
John T. Buckley, contractor on account building	$4,981 10	
Filbert Paving Co., cement floor and blind ditch	41 66	
P. Flanigan, hauling stone	16 00	
Wilton C. Davis, carpenter work	1 31	
Total expenditures		5,040 07
Surplus of credit		$6 03
Balance carried forward to 1904		6 03

LOT AND BUILDING ENGINE HOUSE No. 25 A—VI (22).

Original appropriation		$30,000 00
EXPENDITURES.		
Mary D. Robinson and Eliza D. Forrest, purchase of lot	$3,020 10	
Recording deed	3 00	
Advertising for proposals	49 40	
Blue prints	14 92	
Frank H. Sloan, surveying	12 00	
F. W. Story, examining title	35 00	
Milton C. Davis, contractor on account building	22,909 14	
City Engineer, paving	14 42	
I. H. Peddicord & Sons Co., hauling	14 05	
P. Flanigan, laying drain	148 00	
Total expenditures		26,220 03
Surplus of credits		$3,779 97
Balance carried forward to 1904		3,779 97

LOT AND BUILDING ENGINE HOUSE No. 24 A—VI (22).

Original appropriation		$20,000 00
EXPENDITURES.		
Samuel J. Harman, purchase of lot	$3,500 00	
Chas. W. Wash, examining title	125 00	
Recording deed	3 50	
Advertising for proposals	57 97	
Frank H. Sloan, surveying	10 00	
Chas. L. Stockhausen, contractor on account building	819 00	
Total expenditures		4,515 47
Surplus of credits		$15,484 53
Balance carried forward, 1904		15,484 53

BUILDING TRUCK HOUSE No. 11 A—VI (22).

Original appropriation		$1,000 00
EXPENDITURES.		
Paid C. Sheehan & Son, contractors, balance due and reserved on building		1,000 00

REVENUE.

Sale old hose, worn out horses, etc	$2,322 36
Balance paid into the city treasury	2,322 36

CRIMINAL COURT A—VI (23).

Original appropriation, salaries $13,500 00

EXPENDITURES.

Salaries to December 1, 1903:

Bailiff, L. V. White,	12 months	$1,500 00	
" Herman Schapiro,	12 "	1,500 00	
" Levy Abrahams,	12 "	1,500 00	
" W. S. Taylor,	1 "	125 00	
" Joseph Quinn,	1 "	125 00	
" S. M. Crane,	1 "	125 00	
" R. C. Smith,	1 "	125 00	
" O. E. Cruse,	1 "	125 00	
" C. B. Reilly,	11 "	1,375 00	
" C. E. Grogan,	11 "	1,375 00	
" C. F. Peace,	11 "	1,375 00	
" Geo. J. Kaufman,	11 "	1,375 00	
" F. A. Elphring,	11 "	1,375 00	
Stenographer, H. W. Rogers, 5 months 14 days to May 15, 1903		681 45	
Stenographer, J. Solomon, 6 months 17 days to December 1, 1903		818 55	
Total expenditures, 1903			13,500 00

Original appropriation, expenses $72,900 00

EXPENDITURES.

Grand jurors	$ 7,237 50	
Petit jurors	10,455 00	
Clerk's fees	18,831 15	
Sheriff's fees	12,692 85	
State's Attorney	14,225 00	
Meals for jurors	72 10	
Stationery	273 00	
City directories	18 00	
Stenographers	528 60	
Witnesses	524 72	
Transportation	77 80	
Interpreter	21 25	
Attorneys for prisoners	415 00	
Expert testimony	115 00	
Telephone message	50	
Pinkerton National Detective Agency, "Johnson case".	249 52	
Isaac S. Field, "Johnson case"	10 00	
Total expenditures		65,746 99
Surplus of credit		$7,153 01
Balance to surplus, 1903		7,153 01

BALTIMORE CITY COURT A—VI (23).

Original appropriation, salaries $7,000 00

EXPENDITURES.

Salaries to December 1, 1903:

Bailiff, Geo. W. Golden	1	month, to	1st	Dec.,	1903.	$ 125 00	
" Wm. S. Norris	1	"	"	"	"	125 00	
" Jno. T. Barber	1	"	"	"	"	125 00	
" H. C. Chaney	1	"	"	"	"	125 00	
" H. McP. Dall	5	"	"	"	"	625 00	
" S. T. Mason	11	"	"	"	"	1,375 00	
" Chas. S. Eggleston	11	"	"	"	"	1,375 00	
" Jno. McNeill	11	"	"	"	"	1,375 00	
" James Howard	4	"	"	"	"	500 00	
" Richard J. Penn	4	"	"	"	"	500 00	
Total expenditures							6,250 00
Surplus of credit							$750 00
Balance to surplus, 1903							750 00

Original appropriation, expenses $15,718 75

EXPENDITURES.

Clerk's fees	$2,088 10	
Sheriff's fees	600 80	
Habeas corpus cases	278 30	
Stenographer	1,790 00	
Stationery	255 95	
City directories	18 00	
Jurors	7,965 00	
Total expenditures		12,996 15
Surplus of credit		$2,722 60
Balance to surplus, 1903		2,722 60

COURT OF COMMON PLEAS A—VI (23).

Original appropriation, salaries $8,000 00

EXPENDITURES.

Salaries to December 1, 1903:

Bailiff, James Howard	4	months to	Dec.	1,	1903.	$ 500 00	
" Richard J. Penn	4	"	"	"	"	500 00	
" Chas. F. Peace	1	"	"	"	"	125 00	
" Joseph Quinn	11	"	"	"	"	1,375 00	
" W. S. Taylor	11	"	"	"	"	1,375 00	
" Oscar E. Cruse	11	"	"	"	"	1,375 00	
" S. T. Mason	1	"	"	"	"	125 00	
" H. McP. Dall	1	"	"	"	"	125 00	
Stenographer, Jno. C. Davis,	12	"	"	"	"	1,500 00	
Watchman, W. F. Allen	12	"	"	"	"	1,000 00	
Total expenditures							8,000 00

Original appropriation, expenses		$13,746 25
EXPENDITURES.		
Clerk's fees	$3,187 90	
Habeas corpus	415 70	
Stationery	376 91	
Stenographer for judge-at-large	270 00	
Sheriff's fees	486 80	
City directory	6 00	
Jurors	5,650 50	
Total expenditures		10,393 81
Surplus of credit		$3,352 44
Balance to surplus, 1903		3,352 44

SUPERIOR COURT A—VI (23).

Original appropriation, salaries		$7,420 00
EXPENDITURES.		
Salaries to December 1, 1903:		
Bailiff, Chas. E. Grogan.... 2 months	$ 250 00	
" Chas. B. Reilly..... 2 "	250 00	
" Noble Pennington ..12 "	1,500 00	
" Harry C. Chaney,.. 9 "	1,125 00	
" Jno. T. Barber.....10 "	1,250 00	
" Jos. L. D. Kearney, 1 "	125 00	
" James Howard ..... 4 "	500 00	
" Richard Penn ..... 4 "	500 00	
Stenographer, Grayson W. Sharretts, 12 months	1,500 00	
Janitor, James Callahan, 12 months	420 00	
Total expenditures		7,420 00
Original appropriation, expenses		$12,767 90
EXPENDITURES.		
Clerk's fees	$2,631 95	
Sheriff's fees	568 80	
Stenographer for judge-at-large	720 00	
Printing, stationery, and binding	524 17	
City directories, 1902–1903	24 00	
Jurors	7,798 50	
Total expenditures		12,267 42
Surplus of credit		$500 48
Balance to surplus, 1903		500 48

CIRCUIT COURT A—VI (23).

Original appropriation, salaries		$3,900 00
EXPENDITURES.		
Bailiff, Geo. J. Kaufman.. 1 months	$ 125 00	
" F. A. Elphring.... 1 "	125 00	
" Wm. S. Norris....11 "	1,375 00	
" Geo. W. Golden...11 "	1,375 00	
Watchman, Jos. B. Boyd.12 "	900 00	
Total expenditures		3,900 00

Original appropriation, expenses..... $600 00

EXPENDITURES.

Clerk's fees	$115 50	
Boxes	4 50	
Stationery	212 70	
Stenographer (Baltimore City Court)	140 00	
City directory	6 00	
Total expenditures		478 70
Surplus of credit		$121 30
Balance to surplus, 1903		121 30

CIRCUIT COURT A—VI (23).

Original appropriation, salaries..... $3,900 00

EXPENDITURES.

Bailiff, John McNeill... 1 months	$ 125 00	
" Chas. Eggleston. 1 "	125 00	
" S. M. Crane ....11 "	1,375 00	
" R. C. Smith..... 4 "	500 00	
" Geo. B. Ely..... 7 "	875 00	
Watchman, J. H. Hand.12 "	900 00	
Total expenditures		3,900 00

Original appropriation, expenses..... $400 00

EXPENDITURES.

Clerk's fees	$152 25	
Stationery	58 50	
Stenographer (Baltimore City Court)	90 00	
Total expenditures		300 75
Surplus of credit		$99 25
Balance to surplus, 1903		99 25

ORPHANS COURT A—VI (23).

Original appropriation, salaries..... $10,016 00

EXPENDITURES.

Salaries to December 1, 1903:

Judge, Geo. Savage	$2,799 00	
" Myer J. Block	2,799 00	
" Wm. J. O'Brien	2,799 00	
Bailiff, Joseph R. Knight	1,555 00	
Total expenditures		9,952 00
Surplus of credit		$64 00
Balance to surplus, 1903		64 00

Original appropriation, expenses		$100 00

EXPENDITURES.

Towel service	$12 00	
2 pocket knives and eraser	6 00	
Embossed paper, steel dies, fountain pens, shears, etc.	68 65	
Total expenditures		86 65
Surplus of credit		$13 35
Balance to surplus, 1903		13 35

JUVENILE COURT A—VI (23).

Original appropriation, salary		$3,015 95

EXPENDITURES.

Judge, Charles W. Heiusler, June 23, 1902, to December 1, 1903		3,015 95

Original appropriation, expenses		$765 00
Transferred from Contingent Fund		100 00
Total credit		$865 00

EXPENDITURES.

Clerk, Maud S. Shriver	$720 00	
Extra clerical services	30 00	
Transportation for children to institutions	25 00	
Traveling expenses, etc., Brooklyn and Washington, D.C.	34 00	
City directory	6 00	
Subscription to "Daily Record"	5 00	
Postage	45 00	
Total expenditures		865 00

SUPREME BENCH A—VI (23).

Original appropriation, salaries		$4,500 00

EXPENDITURES.

Judge Henry D. Harlan, salary to December 1, 1903	$500 00	
" J. Upshur Dennis, " " " "	500 00	
" Charles E. Phelps, " " " "	500 00	
" Albert Ritchie, " September 14, 1903	477 76	
" D. Geraud Wright, " December 1, 1903	500 00	
" John J. Dobler, " " " "	500 00	
" Henry Stockbridge, " " " "	500 00	
" Geo. M. Sharp, " " " "	500 00	
" Pere L. Wickes, " " " "	500 00	
Total expenditures		4,477 76
Surplus of credit		$22 24
Balance to surplus, 1903		22 24

Original appropriation, expenses	$630 00

EXPENDITURES.

Calendar pads	$ 50	
Index election officers, jury lists	32 00	
List of taxpayers eligible for jurors	250 00	
Stationery, binding, etc	104 55	
Postage	5 00	
3 badges for bailiffs	3 00	
Repairing typewriter desk	1 00	
Total expenditures		396 05
Surplus of credit		$233 95
Balance to surplus, 1903		233 95

MAGISTRATES A—VI (23).

Original appropriation	$19,600 00
Transferred from Contingent Fund	250 00
Total credit	$19,850 00

EXPENDITURES.

Salaries to December 1, 1903:		
Police Magistrate, John T. Ross	$2,100 00	
" " Neilson Poe, Jr	2,100 00	
" " James W. Lewis	2,100 00	
" " Wm. J. Garland	2,100 00	
" " James A. Fechtig, Jr	2,070 62	
" " Wm. J. Robertson	2,100 00	
" " J. McKenny White	2,097 12	
" " Adolph Sauber	2,100 00	
" " Daniel J. Loden	2,097 00	
Substitute Magistrates, owing to sickness, vacation or absence of the regular magistrates	948 92	
Total expenditures		19,813 66
Surplus of credit		$36 34
Balance to surplus, 1903		36 34

FINES A—VI (23).

By Central Station Police Magistrates		$260 00
" Western " " "		222 00
" Northwestern " " "		126 00
" Northeastern " " "		226 50
" Southern " " "		472 00
" Southwestern " " "		407 00
" Eastern " " "		183 00
" Northern " " "		100 00
" at-large Police Magistrates		251 00
" Sheriff		3,041 95
" substitute Police Magistrates		48 00
To amount remitted by Mayor	$ 210 00	
" net revenue	5,127 45	
	$5,337 45	$5,337 45

REMOVED CASES.

RECEIPTS.

Balance from 1902		$1,021 58
Removed from	*Case.*	*Amount.*
Baltimore County	Geo. F. Brown *vs.* United Rys. & Electric Co	$ 55 32
" "	Edwin F. Abell, Trustee, *et al.* *vs.* Charles Stelos Co	112 64
" "	Wright *vs.* Reese	243 96
Harford "	Johnson *vs.* Tucker	394 02
		805 94
Total credit		$1,827 52
Balance carried forward to 1904		1,827 52

HEALTH DEPARTMENT A—VI (24).

Original appropriation, salaries $57,836 00

EXPENDITURES.

Salaries to December 1, 1903:

Commissioner of Health, James Bosley, M.D.	$3,500 04	
Asst. " " C. Hampson Jones, M.D.	2,000 04	
Secretary, J. W. M. Kiger	1,500 00	
Asst." Arthur D. Thompson	1,080 00	
Permit Clerk, Harry C. Andrews	999 96	
Registrar's Clerk, John H. Uhlenberg	900 00	
Laboratory Clerk, John A. Campbell	900 00	
Index Clerk, George C. Wedderburn	900 00	
" Charles A. Wall, Jr	900 00	
Nuisance Clerk, Francis X. Jenkins	900 00	
Inspector of Throats, Allan W. Smith, M.D., 6 mos.	399 96	
Inspector of Throats, Dr. W. P. Stubbs, 6 "	399 96	
Medical Examiner, Dr. N. G. Keirle	1,500 00	
Asst." " Dr. B. P. Muse	499 92	
Inspector of Bakeries, Henry J. Hahn	900 00	
Inspector of Dairies, George F. Schultz	900 00	
Driver of Funeral Wagon, Aug. Ritmiller	720 00	
" " " H. M. North	720 00	
Disinfector, Thomas E. Morse	799 92	
" George W. Phillips	799 92	
Inspector of Plumbing and Drainage, Jos. C. Mitchell	1,200 00	
Asst." " " Geo. R. Minnick.	900 00	
Asst." " " C. H. Inderrieden	900 00	
Inspector of Drains, Francis A. Ebberts	900 00	
Superintendent of Morgue, Patrick R. Glynn	900 00	
Maker of Disinfectants, Wm. E. Woodall	799 92	
Commissioner's Clerk, Eleazer Goldberg	799 92	
Chemist, Gustav W. Lehman	1,500 00	
Bacteriologist, Wm. Royal Stokes, M.D	1,500 00	
Inspector of Food, Wm. B. Roth	900 00	
" " Charles Knell	900 00	
" " Herbert G. Wilson	900 00	
" " Charles A. Lerian, 11 months	825 00	
" " Charles M. Brodwater	900 00	
Laboratory Assistant, R. deM. Taveau 3 months	105 00	
Laboratory Assistant, John Johns, 9 "	315 00	
Amounts carried forward	$35,464 56	$57,836 00

Amounts brought forward	$35,464 56	$57,836 00
Laboratory Assistant, John B. Weilage	180 00	
" " George Karl	180 00	
" " Grover Benser	192 00	
Messenger, J. Charles Roemer, 4 months, 16 days	54 19	
Messenger, Leonard Campbell, 4 " 15 "	53 81	
" James Bachen, 3 "	36 00	
Health Warden, 1st Ward, Dr. Jesse W. Williams	900 00	
" " 2d " Dr. C. M. Schulte	900 00	
" " 3d " Dr. J. A. Schulte	900 00	
" " 4th " Dr. Thos. Sudler	900 00	
" " 5th " Dr. F. A. Sauer	900 00	
" " 6th " Dr. A. C. Hearn	900 00	
" " 7th " Dr. Alex. S. Gage	900 00	
" " 8th " Dr. J. Wm. France	900 00	
" " 9th " Dr. H. Young Westbrook	900 00	
" " 10th " Dr. John F. Hempel	900 00	
" " 11th " Dr. Claude VanBibber	900 00	
" " 12th " Dr. Thomas L. Richardson	900 00	
" " 13th " Dr. Dennard S. Williams	900 00	
" " 14th " Dr. Arthur G. Barrett	900 00	
" " 15th " Dr. James L. Ridgely	900 00	
" " 16th " Dr. Michael K. Warner	900 00	
" " 17th " Dr. Howard D. Lewis	900 00	
" " 18th " Dr. Robert A. Warner	900 00	
" " 19th " Dr. Marshall G. Smith	900 00	
" " 20th " Dr. Henry J. Hahn	900 00	
" " 21st " Dr. A. D. Driscoll	900 00	
" " 22d " Dr. Albert T. Chambers	900 00	
" " 23d " Dr. H. Lee Franks	900 00	
" " 24th " Dr. L. J. Turlington	900 00	
Total expenditures		57,760 56
Surplus of credit		$75 44
Balance to surplus, 1903		75 44

Original appropriation, expenses	$13,504 00
Transferred from Contingent Fund	8,488 91
Total credit	$21,992 91

EXPENDITURES.

Anti-toxin	$2,559 80	
Fumigation	587 00	
Car fare	750 00	
Advertising	63 79	
Subscriptions to journals, etc	45 30	
Coffins for pauper dead	164 10	
Miscellaneous expenditures	1,204 55	
Rent 315 North street, Detention house	360 00	
Publishing annual report	2,224 55	
Ice and incidentals for Morgue	514 78	
Laboratory supplies	763 61	
Disinfectants	841 84	
Vaccine virus	1,000 00	
Digging graves	20 00	
Postage	1,115 63	
Livery and hiring	2,105 56	
Care of city patients	37 52	
Care of Small-pox patients and suspects	7,634 88	
Total expenditures		21,992 91

QUARANTINE A—VI (24).

Original appropriation, salaries		$11,105 00

EXPENDITURES.

Salaries to December 1, 1903:

Ass't Commissioner of Health, Dr. Sydney O. Heiskell	$3,000 00	
Assistant Resident Physician, Dr. T. W. Clark	1,825 00	
Captain, tugboat Hygeia, James C. Evans	780 00	
Engineer, John Crawford	720 00	
" John Kellner	600 00	
Mate, Hygeia, 7 months, Charles C. Chambers	350 00	
" " 5 " W. T. Green	250 00	
Fireman, " Bernard McMahon	600 00	
" " Thomas Gilden	600 00	
Messenger, George M. Streeper	600 00	
Gardener, John L. Matthu	600 00	
Nurse and porter, 4 months, 12 days, Frank Hammill	219 35	
" " " 2 " 19 " Peter Burns	130 65	
" " " 5 " M. T. Armacost	250 00	
Laborer, John Sloan	60 00	
Cook, 2 months, Sarah Allen	40 00	
" 5 " Sarah Smith	100 00	
" 5 " Sarah Coulter	100 00	
Laundress, Annie Potter	180 00	
Extra nurse, Susan Barber	30 00	
" " Lucretia Nicholson	20 00	
Extra cook, Laura Dobson	25 00	
Extra nurse, Philip Forest	21 00	
Total expenditures		11,101 00
Surplus of credit		$4 00
Balance to surplus, 1903		4 00

Original appropriation, expenses		$5,850 00
Curtis Bay Ice Co., refund paid in error		4 20
Total credits		$5,854 20

EXPENDITURES.

Provisions	$1,346 89	
Groceries	669 83	
Ice	54 07	
Coal for "Hygeia" and household use	1,282 31	
New flags	20 00	
Subscriptions to newspapers	13 00	
Car fare	30 00	
Clothing for smallpox patient	8 15	
Sundry household bills	218 10	
Repairs to and supplies for "Hygeia"	1,315 64	
Farm implements, fertilizer, seeds, etc	144 35	
Fumigation	26 25	
Insurance on "Hygeia"	75 00	
Horse feed	296 64	
Drugs	58 60	
Repairs to launch	71 42	
Gasoline for launch and pumping engine	223 95	
Total expenditures		5,854 20

CORONER A—VI (24).

Original appropriation $9,000 00

EXPENDITURES.

Eastern District,	William T. Riley, M.D.....	$1,000 00	
Western "	John C. Wiltshire, M.D.....	1,000 00	
Northeastern District,	John H. Scally, M.D.....	1,000 00	
Northwestern "	Silas Baldwin, M.D	1,000 00	
Southern "	Otto M. Reinhardt, M.D.	1,000 00	
Southwestern "	C. Frank Jones, M.D	1,000 00	
Northern "	William W. Requardt, M.D	1,000 00	
Central "	Patrick F. Martin, M.D.....	1,000 00	
At-large "	Jose L. Hirsh, M. D	1,000 00	
Total expenditures.....			9,000 00

Quarantine Receipts, 1903.

Tonnage Tax.

January	$1,132 50	
February	980 69	
March	1,194 96	
April.....	1,180 22	
May	1,580 82	
June	1,716 46	
July	1,813 76	
August	1,549 25	
September.....	1,428 05	
October	1,307 22	
November	1,262 93	
		$15,146 86

Health Department—Revenue.

Received for birth and death transcripts during the year 1903	$227 00
Balance paid into the city	227 00

BARRACKS AT QUARANTINE A—VI (24).

Original appropriation, transferred from Contingent Fund ... $7,195 50

EXPENDITURES.

Advertising for proposals	$ 44 85	
Blue prints.....	5 72	
Insley & Redden, contractors, on account of contract..	5,000 00	
Total expenditures.....		5,050 57
Surplus of credit		$2,144 93
Balance carried forward to 1904		2,144 93

R. J. Biggs & Co.

Amount paid for wood lost from boat while quarantined for smallpox $85 62

Infectious Disease Hospital.

Amount brought forward from 1902.....	$24,808 50
Balance carried forward to 1904	24,808 50

INSPECTOR OF BUILDINGS A—VI (25).

Original appropriation		$24,380 00

EXPENDITURES.

Salaries to December 1, 1903:

Inspector of Buildings, E. D. Preston	$3,000 00	
Asst. " " George R. Bullen	875 00	
Assistant Inspector, J. S. Busick	1,320 00	
District " R. H. Cornthwaite	1,200 00	
" " Jos. R. Degenhardt	1,200 00	
" " J. P. Newman	1,200 00	
" " J. W. Collins	1,200 00	
" " E. W. Gorman	1,200 00	
" " W. M. Curran	1,200 00	
" " G. A. Houck	1,200 00	
" " W. H. Schulz	1,200 00	
Electrical Inspector, Wm. Clarke	1,800 00	
" " Clarence Ransom	1,500 00	
Furnace Inspector, Jas. W. McCuen	1,200 00	
Clerk, Albert W. Cooper	1,099 92	
Assistant Clerk, Elmer Altreith	900 00	
Permit Clerk, Henry Allnutt	780 00	
" " W. J. McDonnell	780 00	
Draughtsman, J. C. Spedden	900 00	
Extra help, J. J. Byrne	451 61	
" " E. F. Baker	168 00	
Total expenditures		24,374 53
Surplus of credit		$5 47
Balance to surplus, 1903		5 47

Original appropriation, expenses		$500 00

EXPENDITURES.

Postage stamps	$ 60 00	
Filing cases	164 90	
City Directory	6 00	
Coal for testing heating at schools	22 40	
Rubber stamp	3 61	
Draughtsman supplies	36 81	
Daily papers	10 80	
Advertising special notices	78 92	
Telegram	3 12	
Blue prints	2 64	
Typewriting	19 00	
Map	20 00	
Printing annual report	20 50	
" special "	14 30	
Duplicator	6 50	
Engine house drawing	21 75	
Special blanks	8 75	
Total expenditures		500 00

REPAIRS TO CITY PROPERTY CONSOLIDATED A—VI (25).

Original appropriation	$132,567 00
Transferred from Contingent Fund	1,000 00
Total credits	$133,567 00

EXPENDITURES.

City Hall	$5,108 22	
" Annex	36 45	
New Court House	1,749 77	
City Jail	1,554 43	
Baltimore City College	1,673 82	
Eastern Female High School	1,501 08	
Western " " "	1,730 07	
Administration Building	34 91	
Colored High School	635 15	
Baltimore Polytechnic Institute	2,664 33	
School No. 1	512 53	
" 2	167 14	
" 3	788 64	
" 4	385 93	
" 5	297 83	
" 6	429 90	
" 7	768 93	
" 8	967 02	
" 9	618 28	
" 10	174 38	
" 11	2,222 98	
" 12	486 72	
" 13	1,098 44	
" 14	239 49	
" 15	3,242 08	
" 16	1,209 70	
" 17	185 57	
" 19	583 13	
" 20	1,000 00	
" 21	343 86	
" 22	237 08	
" 23	960 37	
" 24	1,099 41	
" 25	424 27	
" 26	834 85	
" 27	494 26	
" 28	737 63	
" 29	765 04	
" 30	2,161 26	
" 31	432 48	
" 32	219 99	
" 33	721 20	
" 34	552 63	
" 35	193 25	
" 37	544 62	
" 38	1,355 63	
" 39	527 25	
" 42	628 03	
" 43	555 55	
" 44	860 78	
" 45	1,396 14	
" 46	1,004 74	
" 47	1,779 46	
Amounts carried forward	$50,896 70	$133,567 00

Amounts brought forward	$50,896 70	$133,567 00
School No. 48	669 20	
" 50	345 27	
" 51	161 50	
" 52	171 45	
" 53	998 62	
" 54	1,902 39	
" 55	1,996 96	
" 57	174 98	
" 58	406 93	
" 60	649 20	
" 60 annex	32 56	
" 61	209 29	
" 63	480 91	
" 65	444 13	
" 66	71 21	
" 67	155 84	
" 68	2,084 46	
" 70	2,230 79	
" 71	524 33	
" 72	3,509 05	
" 73	2,243 75	
" 74	227 45	
" 75	468 40	
" 76	1,923 16	
" 77	2,547 15	
" 78	463 53	
" 79	1,567 13	
" 80	790 63	
" 81	2,838 67	
" 82	227 76	
" 83	555 76	
" 84	1,365 12	
" 91	210 21	
" 92	412 07	
" 93	1,546 47	
" 94	811 96	
" 95	328 38	
" 96	953 61	
" 99	812 17	
" 100	1,439 32	
" 101	116 77	
" 102	666 77	
" 105	746 10	
" 106	1,043 80	
" 107	1,698 17	
" 108	202 38	
" 109	761 39	
" 110	2,755 16	
" 111	453 79	
" 112	326 70	
" 113	796 12	
" 115	1,120 92	
" 116	244 88	
" 10, Branch School	17 79	
" 36 "	10 35	
" 43 "	398 02	
" 49 "	272 80	
" 50 "	18 18	
" 51 "	282 91	
" 59 "	144 83	
Amounts carried forward	$101,926 30	$133,567 00

Amounts brought forward	$101,926 30	$133,567 00
School No. 62, Branch School	264 93	
" 64 "	158 17	
" 97 "	160 58	
" 97 "	101 70	
" 103 "	75 66	
" 103 "	32 06	
" 111 "	88 58	
" 114 "	165 54	
" 114 "	21 07	
" 118 "	407 14	
Richmond Market	342 89	
Belair "	71 17	
Hanover "	532 91	
Cross Street "	109 22	
Broadway "	251 30	
Northeast "	23 75	
Canton "	63 99	
Centre "	147 68	
Lexington "	643 10	
Hollins "	95 01	
Lafayette "	102 45	
Engine House No. 1	1,199 76	
" " 2	143 27	
" " 3	86 84	
" " 4	242 50	
" " 5	96 32	
" " 6	124 60	
" " 7	123 11	
" " 8	131 46	
" " 9	5,846 09	
" " 10	274 34	
" " 11	136 30	
" " 12	184 91	
" " 13	3,483 61	
" " 14	189 87	
" " 15	7,021 45	
" " 16	12 51	
" " 17	88 46	
" " 18	377 63	
" " 19	851 28	
" " 20	158 86	
" " 21	4,055 10	
" " 22	163 61	
Hook and Ladder Company No. 1	123 40	
" " " " 4	442 54	
" " " " 5	14 86	
" " " " 6	152 58	
" " " " 7	1,321 25	
" " " " 8	59 51	
" " " " 10	139 06	
" " " " 11	190 99	
Chemical Company No. 1	70 54	
" " " 2	170 72	
City Morgue	13 59	
Quarantine Hospital	69 88	
Fifth Regiment Armory	21 00	
Total expenditures		133,567 00

SANITARY AND OTHER IMPROVEMENTS A—VI (25).

Original appropriation	$59,400 00

EXPENDITURES.

Western Female High School, new heater	$ 220 00
Polytechnic Institute, new boiler, boiler-house and partition	2,701 50
School No. 10, partition	464 02
" " 17, "	394 19
" " 19, partition and repairs	806 92
" " 20, floors and excavating	5,208 84
" " 28, partitions	721 50
" " 30, "	709 66
" " 33, "	482 57
" " 34, areas	464 70
" " 45, partition	619 20
" " 47, "	720 12
" " 48, "	558 57
" " 55, sewer	4,864 61
" " 115, new addition	1,063 60

There were improvements made in the sanitary work at the following buildings:

School No. 2	1,667 22
" " 8	1,307 99
" " 13	1,487 09
" " 16	1,446 66
" " 21	2,333 92
" " 24	2,105 12
" " 38	1,789 67
" " 42	754 21
" " 48	1,597 06
" " 73	1,703 85
" " 93	2,396 48
" " 109	1,360 34
" " 110	650 39

Furnaces.

School No. 4	240 00
" " 15	1,482 26
" " 20	4,248 82
" " 21	1,613 20
" " 26	917 77
" " 44	2,035 18
" " 45	1,734 07
" " 70	1,500 25
" " 73	1,172 46
" " 77	1,953 01
" " 81	1,902 98
Total expenditures	59,400 00

EMPTYING CESSPOOLS A—VI (25).

Original appropriation $500 00

EXPENDITURES.

Emptying cesspool, School No. 97	$ 8 00	
" " " 32	6 00	
" " " 8	16 00	
" " " 108	16 00	
" " Hook and Ladder Company No. 8.	5 00	
" " School No. 109	8 00	
" " " 102	16 00	
" " " 38	48 00	
" " " 73	16 00	
" " " 58	16 00	
" " " 62	8 00	
" " " 97	8 00	
" " Polytechnic Institute	8 00	
" " Br. School No. 51	45 00	
" " " " 59	9 00	
" " " " 103	8 00	
" " " " 51	5 00	
" " " " 24	4 00	
" " " " 109	42 00	
" " " " 8	40 00	
" " " " 110	82 00	
" " " " 2	18 00	
" " " " 16	16 00	
" " " " 103	8 00	
" " " " 38	8 00	
" " " " 103	36 00	
Total expenditures		500 00

LIVERY AND TRANSPORTATION A—VI (25).

Original appropriation $900 00

EXPENDITURES.

Car tickets for employes	$880 50	
Carriage hire	19 50	
Total expenditures		900 00

REMOVAL OF DANGEROUS WALLS A—VI (26).

Balance brought forward from 1902	$104 77	
215 S. Bethel street	90 87	
941 Hopkins avenue	140 31	
2 houses on Union street	46 03	
1018 Aisquith street	268 23	
1114 N. Eutaw street	270 00	
205 and 207 E. Fayette street	183 63	
207 E. Fayette street	158 44	
		$1,262 28
Credit.		
T. Edward Hambleton		158 44
Debit balance to 1904		$1,103 84

CITY PATIENTS IN HOSPITALS A—VI (31).

Original appropriation		$62,000 00
EXPENDITURES		
City Hospital, 50c. per diem per patient	$17,022 00	
Hospital for Consumptives, 50c. per diem per patient	1,825 00	
" " Crippled and Deformed Children, 50c. per diem per patient	2,737 00	
Maryland General Hospital, 50c. per diem per patient	10,422 50	
St. Agnes " " "	4,099 00	
University of Md. " " "	10,262 00	
St. Josephs " " "	9,066 50	
Homeopathic " " "	4,117 00	
Total expenditure		59,551 00
Surplus of credit		$2,449 00
Balance to surplus, 1903		2,449 00

CARE OF INSANE A—VI (32).

Original appropriation		$127,000 00
EXPENDITURES.		
Maryland Hospital for Insane (Spring Grove Asylum) $150 per annum per patient	$37,847 10	
Springfield State Hospital for the Insane, $150 per annum per patient	51,675 77	
Mt. Hope Retreat, $150 per annum per patient	37,383 26	
Physicians' certificates	42 00	
Total expenditures		126,948 13
Surplus of credit		$51 87
Balance to surplus, 1903		51 87

BOARD OF INSANE, (REVENUE).

Amount received for board of inmates in Hospitals for Insane	$11,554 55
Paid over to the city treasury	11,554 55

DESTITUTE AND NEGLECTED CHILDREN A—VI (33).

Original appropriation		$35,000 00
EXPENDITURES.		
Balto. Manual Labor School, 22c. per diem each inmate	$1,121 34	
Gen. German Orphan Asylum, 22c. " "	963 60	
Home of the Friendless for Colored Children, 20c. per diem each inmate	1,168 00	
Nursery and Child's Hospital, 20c. per diem each inmate	2,995 85	
St. Elizabeth's Home for Colored Children, 20c. per diem each inmate	3,734 48	
St. Joseph's House of Industry, 24c. per diem each inmate	1,518 48	
St. Mary's Female Orphan Asylum, 24c. per diem each inmate	8,935 20	
Sisters of St. Mary's, 20c. per diem each inmate	1,095 00	
St. Vincent's Infant Asylum, 20c. per diem each inmate	6,072 13	
" Male Orphan " 22c. " "	1,606 00	
Home of the Friendless, 20c. " "	2,114 80	
Total expenditures		31,324 88
Surplus of credit		$3,675 12
Balance to surplus, 1903		3,675 12

SUPERVISORS CITY CHARITIES A—VI (34).

Original appropriation, salaries, city office $6,500 00

EXPENDITURES.

Salaries to December 1, 1903:

Secretary, Nathaniel G. Grasty	$1,500 00	
Visitor-in-Chief, T. James Hunter	1,200 00	
Audit Clerk, George Schuster	991 67	
Clerk and Visitor, Mrs. Emily Duvall	900 00	
Visitor, Miss E. S. Walsh	535 00	
" Miss M. O. Simpson	535 00	
Clerk and Stenographer, Mrs. Hortense Bowker	710 00	
Total expenditures		6,371 67
Surplus of credit		$128 33
Balance to surplus, 1903		128 33

SUPERVISORS CITY CHARITIES A—VI (34).

Original appropriation, expenses, city office $1,000 00

EXPENDITURES.

Car tickets	$200 00	
Postage	157 80	
Railroad expenses	310 23	
Incidentals	48 00	
Printing annual report	28 75	
Expenses (Pres. and Sec.) attending Nat'l Conference	78 20	
Total expenditures		822 98
Surplus of credit		$177 02
Balance to surplus, 1903		177 02

BAYVIEW ASYLUM A—VI (34).

Original appropriation, salaries	$24,100 00
Wages returned	67
Total credits	$24,100 67

EXPENDITURES.

Salaries to December 1, 1903:

Superintendent, L. F. Zinkhan	$1,600 00	
Purveyor, Lamar Hollyday	1,500 00	
Chief Engineer, Jas. J. Farrell	1,000 00	
Asst. " W. C. Stevens	900 00	
Clerk, W. T. S. Slothower	600 00	
" D. E. Hammond	600 00	
Baker, C. C. Thomas	700 00	
Fireman, Wesley Rice	540 00	
Messenger, Thos. Connor	660 00	
Farmer, J. B. Hunter	600 00	
Apothecary, A. W. McGlannan	720 00	
Chief Res. Phy. B. V. A., Wm. H. Smith	1,099 99	
9 Asst. " "	335 63	
Chief Res. Phy. Insane, H. D. Purdum	833 34	
5 Asst. " "	182 53	
Supervisor, Phillip Harvey	480 00	
" Insane, F. R. Hudgins	300 00	
Charge Phthisis Ward, Herman Roever	240 00	
Gatekeeper, O. Cannoles	180 00	
Matron, Nannie E. Worsley	600 00	
Amounts carried forward	$13,671 49	$24,100 67

Amounts brought forward	$13,671 49	$24,100 67
Matron Centre House, Minnie Hillegeist	300 00	
Charge Laundry, Logan Carey	264 00	
" Sewing-room, Mary Mercer	360 00	
Head Nurse, Ada P. Janney	493 54	
" K. C. Lucas	90 32	
21 Asst. Nurses	2,234 82	
Charge W. F. Rec. Ward, M. Little	198 00	
" Col." " " " Nellie Rothwell	69 85	
" " " " " Edith M. Knellenger	65 25	
" " " " " Kate McAuliffe	50 64	
" " " " " F. E. Diffenbaugh	7 70	
" Child's Ward, May Gates	106 68	
" " " Mary Carter	28 80	
Supervisor Female Insane, E. S. Greenfield	125 00	
" " " Rosa Pettus	245 00	
30 Attendants Female Insane	2,417 52	
Assistant Supervisor Male Insane, R. L. Stephenson	112 80	
" " " Coke E. Rogers	191 60	
14 Attendants Male Insane	677 83	
Clerk Insane, Wm. Burgess	120 00	
3 Cooks	600 00	
4 Engineer's help	384 00	
4 Night watchmen, carriage driver, charge M. Rec. W. and Male Annex	480 00	
2 Laundresses	125 42	
Pathologist, Dr. E. M. Opie	25 00	
Total expenditures		23,445 26
Surplus of credit		$655 41
Balance to surplus, 1903		655 41
Original appropriation, expenses		$97,600 00
Wages returned		26
Transferred from Contingent Fund		800 00
Total credits		$98,400 26

EXPENDITURES.

General subsistance (meats, groceries, provisions, etc.)	$47,985 13	
Drugs and hospital supplies	3,406 09	
Laboratory, surgical instruments, etc	339 07	
Stables, cost of feed, etc	1,137 41	
Coal	12,978 62	
Gasoline and electric supplies	1,113 54	
Clothing and Dry Goods	5,825 57	
Bedding	2,009 96	
Supplies, repairs—new machinery for laundry	1,470 23	
Painting, general repairs, etc	6,474 01	
Labor, expense roll	2,532 14	
New Feed Water Heater, cost of installing same, new hog house	2,287 55	
Exchanging 5 cows	40 00	
Total expenditures		87,599 32
Surplus of credit		$10,800 94
Balance to surplus, 1903	$ 94	
Balance carried forward to 1904	10,800 00	10,800 94

REVENUE.

Received for board of inmates and sale of old material	$1,058 26
Paid over to the city treasury	1,058 26

PURCHASE HARDESTY LAND A—VI (34).

Original appropriation		$50,000 00
EXPENDITURES.		
Purchase of land	$49,372 47	
Surveyor, Frank H. Sloan	60 00	
Examiner, Jas. W. McElroy	225 00	
Recording	9 50	
Total expenditures		49,666 97
Surplus of credit		$333 03
Balance to surplus, 1903		333 03

TEMPORARY CARE OF HOMELESS MEN A—VI (35).

FRIENDLY INN.

Original appropriation		$1,000 00
EXPENDITURES.		
Furnishing meals and lodging to 3,998 men at 10c. per day as per contract	$399 80	
Furnishing meals and lodging to 1,143 men at 10c. per day as per contract	114 30	
Furnishing meals and lodging to 946 men at 10c. per day as per contract	94 60	
Furnishing meals and lodging to 3,037 men at 10c. per day as per contract	303 70	
Total expenditures		912 40
Surplus of credit		$87 60
Balance to surplus, 1903		87 60

JAIL A—VI (36).

Original appropriation		$32,080 00
EXPENDITURES.		
Salaries to December 1, 1903:		
Warden, James T. Doyle	$1,955 47	
" Chas. A. Hook	44 45	
Physician, Geo. L. Wilkins	1,500 00	
Clerk, H. C. Martin	1,500 00	
Dep. Warden, Jas. F. Macullar	1,196 78	
Engineer, Alex. Shea	414 63	
" M. J. Fitzpatrick	985 05	
" John McCusker	446 59	
Keeper, Jos. Steinberger	891 25	
" Jno. Fallon	851 60	
" J. H. Jenkins	897 32	
" Thos. Hopper	900 00	
" Jos. Meushaw	375 34	
" Chas. Helbing	902 42	
" John G. Fisher	384 68	
" M. McGuire	902 42	
" Geo. Rummel	868 56	
" H. M. Shanberger	914 32	
Amounts carried forward	$15,930 88	$32,080 00

Amounts brought forward	$15,930 88	$32,080 00
Keeper, Jno. Connolly	860 39	
" H. H. Levelle	902 42	
" Thos. J. Noonan	900 00	
" D. Bergan	919 60	
" B. T. Tinnan	902 46	
" H. O. Connor	900 00	
" H. H. Lecron	924 68	
" Edw. Wolfe	902 42	
Hostler, C. W. Hoocke	715 92	
Keeper, P. J. Kelly	480 08	
" W. J. McDermott	850 24	
" M. J. Eagan	900 00	
" Jos. Landers	483 95	
" E. McCarthy	897 58	
Assistant to physician, Chas. C. Tumbleson	150 00	
Keeper, M. Waldhauser	503 24	
" A. Kerbe	484 04	
" T. W. Mitchell	350 98	
" Geo. Friese	372 58	
Sub-keeper, R. E. Emerson	217 27	
" Frank Horner	173 92	
Matron, Mrs. Willen	714 24	
" Mrs. Hughes	720 00	
" Mrs. Martin	720 00	
Sub-matron, Mrs. A. McKenna	4 80	
" Mrs. Wright	6 00	
Total expenditures		31,887 69
Surplus of credit		$192 31
Balance to surplus, 1903		192 31

JAIL A—VI (36).

Original appropriation, expenses	$22,000 00
Amount returned for error	10 00
Total credits	$22,010 00

EXPENDITURES.

Flour	$4,983 00	
Meat	2,860 84	
General groceries	6,688 22	
Heating and lighting	1,316 23	
Machinery and supplies	965 47	
Clothing, etc	1,188 21	
Sanitary supplies	1,291 17	
Hospital drugs	733 35	
" subsistence	1,353 69	
Incidental expenses	621 66	
Total expenditures		22,001 84
Surplus of credits		$8 16
Balance to surplus, 1903		8 16

TRANSPORTATION TO HOUSE OF CORRECTION A—VI (36).

Original appropriation		$500 00

EXPENDITURES.

Paid B. & O. R. R. Co., for transportation, January ..	$32 20	
" " " " " February .	6 40	
" " " " " March	40 10	
" " " " " April	51 80	
" " " " " May	28 10	
" " " " " June	29 95	
" " " " " July	22 83	
" " " " " August ...	33 87	
" " " " " September	22 03	
" " " " " October...	27 68	
" " " " " November.	27 86	
" " " " " December.	56 70	
Total expenditures		$379 52
Surplus of credit		$120 48
Balance to surplus, 1903		120 48

REFORMATORIES A—VI (36).

Original appropriation		$74,500 00
Balance brought forward from 1902		1,000 00
Total credits		$75,500 00

EXPENDITURES.

St. Mary's Industrial School, maintenance 358 boys, $6.66⅔ per month per capita	$28,718 20	
House of Reformation for Colored Boys, maintenance of 107 colored boys, $6.66⅔ per month per capita....	8,500 00	
Salary, Visiting Agent	708 34	
Expenses "	417 01	
Industrial Home for Colored Girls, maintenance of 49 colored girls, $4.75 per month per capita	2,782 75	
Industrial Home for Colored Girls, improvements	1,500 00	
House of Good Shepherd for Colored Girls, maintenance of 44 colored girls, $4.75 per month per capita.....	2,500 00	
Female House of Refuge, maintenance 28 girls, $6.66⅔ per month per capita	2,270 40	
Female House of Refuge, repairs	996 40	
House of Refuge for Boys, maintenance 153 boys, $6.66⅔ per month per capita	12,270 00	
House of Refuge for Boys, manual training, 100 boys, $5.00 per month per capita	6,000 00	
House of Refuge for Boys, repairs	2,987 26	
Total expenditures		69,650 36
Surplus of credit		$5,849 64
Balance to surplus, 1903		5,849 64

JAIL—REVENUE A—VI (36).

Received for board of prisoners, services of prisoners, and sale of old material	$7,678 10
Paid over to the city treasury	7,678 10

ADDITION TO JAIL HOSPITAL A—VI (36).

Balance brought forward from 1902	$2,648 10

EXPENDITURES.

Sam'l K. Smith, trustee, Andrew J. Gengenbach, contractor	$2,437 08	
Thos. L. Jones, carpenter work	30 37	
Frank W. Garrettson, plastering	10 63	
Geo. W. Walther & Co., plumbing and electrical work.	60 52	
Total expenditures		2,538 60
Surplus of credit		$109 50
Balance to surplus, 1903		109 50

DISPENSARY SERVICE A—VI (37).

Original appropriation	$7,850 00

EXPENDITURES.

Eastern Dispensary	$1,188 60	
Baltimore General Dispensary	1,338 90	
Northeastern "	1,425 00	
Woman's Medical College Dispensary	1,080 30	
Balto. Eye, Ear and Throat Charity Hospital Dispensary	700 00	
City Medical Agency, southern district	1,180 06	
Total expenditures		6,912 86
Surplus of credit		$937 14
Balance to surplus, 1903		937 14

TRANSPORTATION OF POOR TO THEIR HOMES A—VI (37).

Original appropriation	$800 00
Refund	2 00
Total credits	$802 00

EXPENDITURES.

Paid for transportation in January	$ 6 35	
" " February	21 10	
" " March	16 57	
" " April	14 95	
" " May	10 51	
" " June	5 21	
" " July	18 55	
" " August	48 00	
" " September	15 83	
" " October	37 69	
" " November	60 51	
" " December	119 79	
Total expenditures		375 06
Surplus of credit		$426 94
Balance to surplus, 1903		426 94

PENSION ACCOUNT, W. H. WAR A—VI (37).

Original appropriation	$260 00
EXPENDITURES.	
Paid W. H. War $5.00 per week during 1903 (52 weeks)	260 00

M. FRANKE (Widow) A—VI (37).

Transferred from Contingent Fund	$300 00
EXPENDITURES.	
Paid M. Franke, widow, $25.00 per month during 1903	300 00

IDA E. O'KEEFE A—VI (37).

Original appropriation	$400 00
EXPENDITURES.	
Paid Ida E. O'Keefe for the year 1903	400 00

FANNIE E. SCHAEFFER A—VI (37).

Transferred from Contingent Fund	$300 00
EXPENDITURES.	
Paid Fannie E. Schaeffer $25.00 per month during 1903	300 00

CITY ENGINEER A—VI (41).

Original appropriation, salaries		$28,680 00
EXPENDITURES.		
Salaries to December 1, 1903:		
City Engineer, B. T. Fendall	$4,000 00	
Chief Clerk, J. Early Walsh, 10 months, 4 days	1,266 13	
" Geo. M. Boteler, 1 month, 27 days	233 87	
Permit Clerk, Jas. R. Dunlop	1,000 00	
Bookkeeper, Jos. S. Clarke	1,000 00	
Stenographer, F. H. Deane, 7 months	525 00	
" E. F. Rodgers, 5 months	375 00	
Pole Inspector, Francis Cutaiar, 11 months, 11 days	852 50	
Gen'l " Alfred Hollyday, 19 days	47 50	
Asst. City Engineer, N. M. Gray	2,000 00	
" Engineer, R. K. Compton	1,500 00	
" " B. L. Weston	1,500 00	
Draughtsman, H. F. Siemers	1,200 00	
Asst. City Engineer, Jno. S. Patterson	2,000 00	
" Engineer, Jno. S. Doyle	1,500 00	
" " Jos. L. Wickes, 10 months, 4 days	1,012 90	
Amounts carried forward	$20,012 90	$28,680 00

Amounts brought forward	$20,012 90	$28,680 00
Clerk, Wm. Smart, 4 months	240 00	
" Clarence Seaman, 8 months	480 00	
Paving Inspector, W. W. Stockham	720 00	
Asst. City Engineer, O. W. Connet	2,000 00	
" Engineer, Jas. A. Paige	1,500 00	
" " Frank K. Duncan	1,200 00	
Draughtsman, Thos. C. Harris	900 00	
Clerk, E. F. Rodgers, 7 months	420 00	
" L. C. Miller, 5 months	300 00	
Footway Inspector, Jos. B. Maguire	720 00	
Draughtsman, Jos. B. Isaacs, 27 days	65 96	
" Soine, 1 month, 19 days	120 96	
Total expenditures		28,679 82
Surplus of credit		$ 18
Balance to surplus, 1903		18
Original appropriation, expenses		$2,700 00
Sale of maps		7 50
Total credits		$2,707 50

EXPENDITURES.

Advertising for proposals in sundry papers during the year	$ 981 27	
Car tickets for employes during the year	1,113 00	
Hire horse and buggy	87 00	
Monthly periodicals and books	27 44	
City Directory	6 00	
Printing annual reports, specifications, etc	164 50	
Maps of Baltimore	45 00	
Engravings for annual report	13 54	
Library Bureau for office files, etc	71 74	
Blotter bath and duplicator	10 90	
Rubber stamps, badges, etc	9 60	
Stamps and postal cards	82 34	
Drawing instruments, tapes, etc., photo supplies	36 06	
Typewriters, repairs and parts	24 35	
Use of telephone, rowboats, picture frames, keys, freight, hauling and wooden stacks	16 03	
Total expenditures		2,688 77
Surplus of credits		$18 73
Balance to surplus, 1903		18 73

COMMISSIONERS FOR OPENING STREETS A—VI (41).

Original appropriation, salaries	$6,900 00

EXPENDITURES.

Salaries to December 1, 1903:

Commissioner Francis E. Bond, salary	$1,800 00	
" Henry Yewell, "	1,800 00	
" Arthur R. MacLellan " 7 mos. 27 days	1,180 65	
" James H. Marine, " 4 " 3 "	614 52	
Clerk, George Chesley "	1,500 00	
Total expenditures		6,895 17
Surplus of credit		$4 83
Balance to surplus, 1903		4 83

Original appropriation, expenses $172 00

EXPENDITURES.

Printing annual report	$ 3 20	
City directory	6 00	
Car tickets for use of office force	5 00	
Subscription to papers	15 43	
Total expenditures		29 63
Surplus of credit		$142 37
Balance to surplus, 1903		142 37

SUPERINTENDENT OF LAMPS AND LIGHTING A—VI (41).

Original appropriation, salaries $12,548 00

EXPENDITURES.

Supt. Lamps and Lighting,	Robert J. McCuen	$1,999 98	
Asst. Supt. "	William Mohr	1,500 00	
Inspector of Gas and Oils,	Louis S. Wilson	1,060 00	
" Gas Meters,	John H. Marley	954 00	
Collector of Meters and Oil,	Charles Heinritz	738 00	
Extra helper,	Patrick Scanlan	204 98	
Supt. Eastern District,	Benjamin T. Wells	650 00	
" Northeastern District,	Geo. M. McClary	650 00	
" Western "	Wm. L. Cutaiar	650 00	
" Northwestern "	Wm. H. Boone	650 00	
" Southern "	John Bowers	650 00	
" Northern Dist., No. 1,	Adam E. Hensel	650 00	
" " " 2,	Henry C. Kennedy	650 00	
Inspector-at-large,	James A. Jacobs	855 71	
"	Frank F. Bush	650 00	
Total expenditures			12,512 67
Surplus of credit			$35 33
Balance to surplus, 1903			35 33

Original appropriation, expenses $300 00

EXPENDITURES.

Car tickets	$120 00	
Advertising for proposals	51 46	
Postage stamps	35 00	
Printing 1902 Report	24 78	
Typewriting proposals	15 00	
City Directory, 1903	6 00	
Expressage, telegrams, etc	1 19	
Total expenditures		253 43
Surplus of credit		$46 57
Balance to surplus, 1903		46 57

REVENUE.

Fees for inspecting and testing gas meters	$2,646 00	
Refunded—Account of incorrect and defective meters	43 00	
		$2,603 00
Total receipts from sale of old material		110 92
Total revenue		$2,713 92
Balance paid into the city treasury		2,713 92

COMMISSIONER OF STREET CLEANING A—VI (41).

Original appropriation, salaries $16,200 00

EXPENDITURES.

Salaries to December 1, 1903:

Commissioner of Street Cleaning, Paul Iglehart, 9 mos.	$1,875 00	
" " " William A. Larkins, 1 month and 4 days	235 21	
Commissioner of Street Cleaning, J. L. Wickes, 1 month and 27 days	389 79	
General Superintendent, W. A. Larkins, 10 months and 27 days	1,358 88	
Chief Clerk, F. G. Whelan	1,000 00	
Assistant Clerk, W. D. N. Thomas, 7 months	420 00	
Assistant Clerk, Henry Moale, 5 months	300 00	
Stenographer and Mileage Clerk, F. W. Hoffrogge	600 00	
1st District Superintendent, Joseph Hopps....11 mos.	916 66	
1st District Superintendent, Wm. Wiebking... 1 "	83 34	
2d " " Henry T. Daly....11 "	916 66	
2d " " E. F. Callahan.... 1 "	83 34	
3d " " W. F. Coffay, Jr.. 2 "	166 66	
3d " " B. T. Sarber..... 8½ "	708 34	
4th " " E. F. Callahan....11 "	916 66	
4th " " John T. Brady.... 1 "	83 34	
5th " " John E. Gist	1,000 00	
6th " " M. Doonan	1,000 00	
7th " " J. F. Hall.....11 mos.	916 66	
7th " " B. T. Sarber..... 1 "	83 34	
Superintendent of Sweeping Machines, L. D. Cook	900 00	
Garbage Inspector, A. S. Wilson	780 00	
Superintendent Dump No. 1, Hugh Noon	600 00	
" " No. 2, Joseph W. Funk	600 00	
Engineer, Joseph Wilkins, 2 months and 13 days	241 94	
Total expenditures		16,175 82
Surplus of credit		$24 18
Balance to surplus, 1903		24 18

Original appropriation, expenses $1,100 00

EXPENDITURES.

Livery	$277 95	
Car tickets for employees	455 00	
Postage stamps	37 50	
City Directory	6 00	
Magistrates' fees	16 50	
Repairs to typewriter	15 45	
Map of City	10 00	
Street index	10 00	
Supplies for carriage	12 50	
"Engineering News"	5 00	
"Municipal Journal"	9 00	
"Engineering Record"	5 00	
Read Manufacturing Company	9 40	
Surveying streets, etc	20 00	
Repairs to carriage	20 00	
Badges for Superintendents	13 25	
Amounts carried forward	$922 55	$1,100 00

Amounts brought forward	$922 55	$1,100 00
Supplies for office	6 90	
Coal	7 50	
Printing Annual Report	12 38	
Stationery	32 00	
Printing specifications	20 00	
Daily newspapers	10 23	
Beck duplicator	5 00	
Sundry small bills	46 85	
Total expenditures		1,063 41
Surplus of credit		$36 59
Balance to surplus, 1903		36 59

REVENUE.

Amount received for hire of carts	$279 00
" " from sale street dirt	681 10
Total receipts	$960 10
Balance paid into the City Treasury	960 10

HARBOR BOARD A—VI (41).

Original appropriation, salaries $5,200 00

EXPENDITURES.

Salaries to December 1, 1903:

Harbor Engineer, W. H. Hutton	$4,000 00	
Clerk, J. H. Irvin	1,200 00	
Total expenditures		5,200 00

Original appropriation, expenses $500 00

EXPENDITURES.

Telegrams, oaths, etc	$ 3 92	
Stamps	10 10	
Car tickets	10 00	
City Directory	6 00	
Annual reports and plats	34 00	
Overhauling anchorage buoys	6 00	
Document file	75 00	
Cigars for Board	12 00	
Lunch (Board meetings on boat)	175 00	
Searchlight	148 78	
Total expenditures		480 80
Surplus of credit		$19 20
Balance to surplus, 1903		19 20

REVENUE.

Received from sale old material	$6 00
Balance carried forward to 1904	6 00

STREETS OPENED, WIDENED AND CLOSED BY CONDEMNATION.

	Ordinances.		Jan. 1, 1903, Dr. Balance.	Jan. 1, 1903, Cr. Balance.	Expenditures in 1903.	Receipts in 1903.	Balance Dr.	Balance Cr.
	No.	Year.						
Abell street	69	1902	$ 99 69				$ 99 69	
Aiken street	26	1902		$1,694 42		$431 32		$2,125 74
Apple or Jew alley	99	1902			$ 46 29		46 29	
Beason street	93	1885	241 23			1,533 50		1,292 27
*Belt street	60	1900		219 69	12,193 79	12,186 72		212 62
Castle street	124	1894		1,443 70				1,443 70
Clarkson alley	112	1884			35 31		35 31	
Cooksie street	24	1887		75 00				75 00
Dallas street	50	1891		333 43				333 43
Dallas street	115	1888	42 80				42 80	
*Ensor street	44	1892		2,900 97	50 00	1,739 77		4,590 74
Etting street	71	1892		48 77				48 77
Florence street	99	1889	497 00				497 00	
Francis street	101	1889	226 00				226 00	
Fulton avenue	105	1892	61 65				61 65	
Grove street	138	1896		208 97				208 97
Jackson street	7	1901	493 05		50 00	7,462 05		6,919 00
Morris street	103	1889	494 55				494 55	
Mount street	205	1889		1,366 91				1,366 91
Neighbor street	106	1894	30 25				30 25	
Patterson avenue	98	1889		1,417 26				1,417 26
Patapsco street	39	1883		715 14				715 14
Race street	113	1884	462 55				462 55	
Race street	139	1875		946 60				946 60
Scott street	61	1900	172 78				172 78	
Viaduct avenue	57	1902	620 21		2,500 00	5,261 39		2,141 18
*West Baltimore street	37	1889	61 88				61 88	
*Whitelock street	105	1898		35 25				35 25
Wolfe street	112	1898	31 35				31 35	

Closing Streets.								
Gilmor's lane	146	1896	532 82	.....	.....	679 32	.....	146 50
Gilmor's lane	84	1900	.....	164 75	.....	.....	.....	164 75
Jenkins & Point lanes	126	1901	.....	234 50	.....	.....	.....	234 50
Mine Bank lane	13	1899	421 96	.....	.....	.....	421 96	.....
West Falls lane	87	1898	144 33	.....	.....	.....	144 33	.....
			$4,634 10	$11,805 36	.....	.....	.....	.....
Widening Streets.								
*East and Chesnut streets	95	1891	.....	.....	$3 75	.....	$3 75	.....
			$4,634 10	$11,805 36	$14,879 14	$29,294 07	$2,832 14	$24,418 33
Credit balance December 31, 1902			7,171 26	.....	.....	.....	.....	.....
Excess receipts over expenditures in 1903			.....	.....	14,414 93	.....	.....	.....
Credit balance December 31, 1903			.....	.....	.....	.....	21,586 19	.....
			$11,805 36	$11,805 36	$29,294 07	$29,294 07	$24,418 33	$24,418 33

Balance December 31, 1903		$21,586 19
Streets completed and balances closed to Mayor and City Council		4,772 98
Net balances carried forward to 1904		$16,813 21
Receipts from City Collector, individual benefits	$ 8,954 45	
City benefits	13,870 96	
Contingent Fund	4,507 57	
United Rys. & Elec. Co	171 32	
Circuit Court No. 2	1,739 77	
Old material	50 00	
	$29,294 07	

STREETS PAVED AND PAID BY ASSESSMENT—A VI (43).

	Ordinances. No.	Ordinances. Year.	Jan. 1, 1903, Dr. Balance.	Jan. 1, 1903, Cr. Balance.	Expenditures in 1903.	Receipts in 1903.	Balance, Dr.	Balance Cr.
*Ashland avenue	21	1902		$6,053 29	$6,953 29			
*Baltimore street	91	1900		4,584 47	4,584 47			
*Brunt street	49	1902		111 89	1,764 96	1,663 57		$10 50
*Calvert street	72	1902		2,325 91	2,997 91	689 10		18 00
*Carey street	63	1902	$60 45		821 78	882 23		
Chase street	158	1903			33 18		$33 18	
Clifton avenue	155	1903			11 70		11 70	
Ducatel street	159	1903			35 58		35 58	
*East Fayette street	27	1902	52 85		1,420 98	1,473 83		
Eighth street	151	1903			11 70		11 70	
*Entaw Place	70	1900		14,580 74	14,580 74			
*Forrest street	126	1898	63 00				63 00	
*Fulton avenue	76	1898	5,628 10				5,628 10	
Henry street	60	1902	49 84			519 29		469 45
*Hoffman street	105	1902			2,021 00	2,021 00		
*Montford avenue	50	1902	51 97		799 20	851 17		
North avenue	123	1896		469 46	9 57			459 89
Northwest street	80	1902	39 67		38 18		77 85	
Rose street	62	1902	76 63		1,331 04	1,407 67		
Stockholm street	103	1902			38 82		38 82	
Tenth street	149	1903			11 71		11 71	
Twelfth street	152	1903			11 70		11 70	
*Paving footways				350 17		84 95		435 12
			$ 6,022 51	$28,475 93	$36,576 61	$ 9,592 81	$5,923 34	$1,392 96
Credit balance December 31, 1902			22,453 42					
Excess expenditures over receipts in 1903						26,983 80		
Debit balance December 31, 1903								4,530 38
			$28,475 93	$28,475 93	$36,576 61	$36,576 61	$5,923 34	$5,923 34

*Work completed.

Net balance carried forward to 1904	$ 697 10
Receipts from City Collector	8,886 16
Receipts from Contingent Fund	706 65
	$9,592 81

PAVING AND REPAVING CROSS STREETS A—VI (43).

Original appropriation $7,500 00

EXPENDITURES.

Street Intersections.

Ashland avenue, Patterson Park avenue to Chester street	$2,694 98	
Baltimore street, Grove street to eastern city limits	815 14	
Eutaw Place, North avenue to Whitelock street	399 69	
Hoffman street, Broadway to Bond street	355 39	
Calvert street, Baltimore street to German street	113 62	
Carey and Ward streets, 75 square yards vitrified brick	117 25	
Brunt street, Bloom street to Baker street	370 00	
Carey street, Columbia avenue to Ward street	353 43	
Rose street, Fayette street to Fairmount avenue	271 78	
Montford avenue, Townsend street to Gay street	74 98	
Gay street and Montford avenue (repaving)	90 90	
		$5,657 16

Footway Repairs.

Labor, grading, paving, etc	$1,261 33	
23,127 No. 2 brick at $10.00 per M	231 27	
88.87 cubic yards sand	72 12	
Cement walk at S. W. Cor. Charles and Centre streets	21 84	
Cement walk at Ashland and Patterson Park avenues	10 21	
Iron pipe at Twenty-sixth street and Morton alley	10 15	
Miscellaneous, tools, etc	28 21	
2 new gutter-plates	81 15	
800 vitrified bricks and hauling	21 76	
24 lineal feet 24-inch terra-cotta pipe	20 64	
36.2 square feet flagstone	10 86	
36.65 perches cobblestone	73 30	
		$1,842 84
Total expenditures		$7,500 00

FOOTWAY CROSSINGS A—VI (43.)

Original appropriation $6,000 00

EXPENDITURES.

Materials purchased	$3,251 05	
Hauling	258 62	
Inspection	53 46	
Labor	2,182 66	
		5,745 79
Surplus of credit		$254 21
Balance carried forward to 1904		254 21

PAVING IN FRONT CITY PROPERTY A—VI (43).

Original appropriation		$3,000 00

EXPENDITURES.

Paving East Fayette street, labor and material	$139 42	
" Ashland avenue, " "	792 10	
" Hoffman street, " "	109 19	
" footway south side of Patterson Park, labor	396 46	
" " Fulton ave. and Druid Hill Park, labor.	91 17	
" " " " " material	180 28	
" " Mount and Cole street, labor	33 00	
" " " " material	26 00	
" " Federal Hill Park, material	15 00	
" " Madison Square, material	1 75	
" various footways, labor and material	465 57	
Total expenditures		2,249 94
Surplus of credit		$750 06
Balance carried forward to 1904		750 06

REPAIRS ROADS, STREETS, Etc. A—VI (43).

Original appropriation	$180,450 00
Transferred from Contingent Fund	1,000 00
Wages returned	26 88
Total credits	$181,476 88

Material.	EXPENDITURES.	
9,451.5 cu. yds. paving sand	$7,793 06	
1,812.65 " screened"	1,760 11	
3,740.24 perches cobblestone	6,083 29	
2,755 cu. yds. cinders	859 04	
14,837.92 lin. ft. standard gutterstone	4,451 37	
55. " old "	8 25	
7,336.1 " hammer-dressed gutterstone	1,749 03	
3,142.58 " 4½ inch new kerbstone	1,862 00	
15.33 " 4½ " " circular kerbstone	18 48	
3,111.87 cu. yds. crushed stone (gabbro)	5,912 58	
2,559.40 " " " (gneiss)	4,352 43	
1,031.24 " stonedust and screenings	1,055 34	
225.47 sq. ft. flagstone	67 64	
415.86 " mosaic paving stone	353 48	
132,239 asphalt blocks	8,591 11	
118,283 Belgian "	5,672 59	
58,000 hauling Belgian blocks	170 00	
1,551 vitrified blocks	38 78	
1,551 " " (hauling)	3 41	
4.86 tons granolithic stone	9 64	
25 tons of coal	126 89	
925 lin. ft. terra-cotta pipe, various sizes, etc	644 73	
2,500 arch brick	20 63	
2 new iron gutter plates	92 85	
40 sq. ft. bluestone	17 60	
1,680 perches old cobblestone (hauling)	713 40	
8,320 sq. ft. Belgian blocks (Calvert street)	166 40	
261 loads " " " " hauling	26 10	
Alterations to manholes and repairs, Electrical Com'n	58 90	
Cement, 480 bbls. and 991 bags	1,523 74	
Oils, etc	190 59	
Hardware	433 65	
Lumber	115 07	
Tools	94 11	
Amounts carried forward	$55,036 29	$181,476 88

Amounts brought forward		$55,036 29	$181,476 88
Sundries:			
Toll		1 80	
Repairing steam road roller		5 00	
Water Department, lowering pipe		30 50	
Fill behind bulkhead, foot of Charles street (Contract)		175 00	
Insurance		30 00	
Rent of lots		31 25	
Tape lines		5 94	
		$55,315 78	
Labor:			
Repairing	1,443,396 sq. ft. cobblestone	47,235 24	
"	10,975 " Belgian blocks	471 93	
Resetting	11,814.53 feet old flagstone	1,004 24	
Setting	225.47 " new "	19 16	
Resetting	50,195.1 lin. ft. old gutterstone	1,646 55	
Setting	14,837.9 " new standard gutterstone	504 48	
"	7,336.1 " " hammer-dressed"	259 43	
Resetting	28,079.4 " old 4½ inch kerb	2,021 71	
Setting	3,142.6 " new4½ " "	226 27	
"	15.53 " " 4½ " " circles	2 21	
Laying	4,759.91 sq. yds. old and 415.86 " new mosaic stone pave'nt	3,575 35	
Repairing	9,732.95 sq. yds. sheet asphalt (5 yr. guar.)	22,476 05	
"	6,243.01 " " " (1 yr. ")	13,552 99	
"	618.4 lin. ft. granolithic gutters	309 20	
Renewing	6,183.26 sq. yds. asphalt block pavement	1,375 13	
Repairing	7,665.75 " " " "	2,984 21	
Labor on small patching	" " " "	250 04	
Repairing	11.89 sq. yds. vitrified brick pavement	12 48	
"	granolithic gutters, various streets	276 33	
Repairs to gutter plates		86 43	
"	to macadam roads	7,385 05	
"	to and setting old flagstone footway crossings	183 03	
Laying old asphalt block footway crossings		19 80	
Repairs to Harmon's road		42 05	
Small emergency gangs		7,785 62	
Laying 6,062.44 sq. yds. Belgian block, Light street		7,710 10	
Blacksmith and helper, City yard		1,435 92	
Grading Twenty-ninth street		182 39	
Laying pipe-line, Old York road and Tinges' lane		212 46	
Grading to drain off water, Ward street, between Stockholm and Carey streets		40 63	
Changing gutter-plates over sewer foot of Broadway		97 81	
Repairing three foot open gutter, Front and Gay streets		49 83	
Grading and paving, etc., Mine Bank lane		382 75	
Stonecutters		151 20	
Resetting kerb at Gold and McCulloh streets		8 75	
Hauling material, etc		785 57	
Labor at City yard		22 81	
Paving Brunt street		529 43	
"	Montford avenue	61 20	
Cement kerb at North avenue and Madison avenue		93 78	
Footway assessments, labor		132 24	
"	" materials	93 27	
Footway repairs on paved streets, labor		102 78	
"	" " " materials	39 80	
Repairs to footway intersections, labor		127 37	
Inspector on Fulton avenue and East Baltimore street		12 00	
Rent of storage lots		31 00	
Miscellaneous		32 85	
Total expenditures			$181,476 88

PRIVATE PAVING AND INSPECTION A—VI (43).

Balance brought forward from 1902		$ 766 38
Received from sundry persons for permits and work done for private persons and corporations		32,513 95
Total credits		$33,280 33

EXPENDITURES.

Paid for material and labor for work done for private persons and corporations		31,042 01
Surplus of credit		$2,238 32
Balance carried forward to 1904		2,238 32

PAVING CERTIFICATES A—VI (43).

Balance brought forward from 1902		$9,057 64

EXPENDITURES.

Chas. A. Hook, paving Thirteenth street, North avenue to Clifton avenue	$208 10	
Chas. A. Hook, paving Clifton avenue, Eighth street to Ninth street	212 41	
Maryland Pavement Co., Grant street, Baltimore street to German street	65 00	
Total expenditures		485 51
Surplus of credit		$8,572 13
Balance carried forward to 1904		8,572 13

PAVEMENT FOR SCHOOL No. 69 A—VI (43).

Transferred from Contingent Fund		$650 00

EXPENDITURES

Paving stone	$147 35	
Sand	6 64	
20 cubic yards cinders	11 00	
Labor	124 35	
Total expenditures		289 34
Surplus of credit		$360 66
Balance to surplus, 1903		360 66

O. W. CONNETT A—VI (43).

Transferred from Contingent Fund		$100 00

EXPENDITURES.

Extra services making sale of old material in the City Engineer's Department in full for the years 1899, 1900 and 1901		100 00

GRADING AND KERBING N. CALVERT ST. A—VI (43).

Balance brought forward from 1902		$714 13
Transferred from Contingent Fund		81 63
Total credits		$795 76

EXPENDITURES.

Contract setting 2,124.15 lin. feet straight kerb	$212 42	
" " 42.41 " circular "	8 48	
1,002.89 lin. ft. of 4½-inch kerb	574 86	
Total expenditures		795 76

GRADING AND KERBING TWENTY-NINTH STREET A—VI (43).

Balance brought forward from 1902		$2,558 24

EXPENDITURES.

Contract, setting 639.11 lin. ft. kerb at 10¢ per lin. ft.	$ 63 91	
" " 721.04 " " 13¢ " "	93 74	
" changing kerb at Maryland avenue	2 50	
Labor on 624 cu. yds. of excavation	262 66	
1,400 sq. ft. cobblestone paved 800.3 lin. ft. gutterstone set 51 " kerbstone "	89 88	
Materials	981 55	
Filling in 1,300 cu. yds. of material at 28¢ per cu. yd.	364 00	
Twenty-ninth street and Hudson Alley sewer	700 00	
Total expenditures		2,558 24

WIDENING NORTH AVENUE AND CHANGING GUTTERS AT PECK'S BRANCH A—VI (43).

Balance brought forward from 1902		$1,593 17

EXPENDITURES.

Labor	$893 47	
Material	60 51	
New inlets to sewers	639 19	
Total expenditures		1,593 17

PAVING FULTON AVENUE A—VI (43).

Balance brought forward from 1902		$18,995 00

EXPENDITURES.

Asphalt block paving	6,747.2 sq. yds.	at	$2.39..	$16,125 80	
New 5 inch kerb set	1,775.8 lin. ft.	at	1.00..	1,775 80	
Old kerb redressed for headers	588.4 "	at	.05..	29 42	
" reset for headers	588.4 "	at	.15..	68 26	
" redressed and reset	155.6 "	at	.28..	43 56	
" reset only	236.7 "	at	.15..	35 50	
Cobble repaving	264.6 sq. yds.	at	.36..	95 25	
Changing paving at alley east of Pennsylvania avenue				17 25	
Total cost paving, kerbing, etc				$18,210 84	
Inspection, etc				213 00	
Total expenditures					18,423 84
Surplus of credit					$571 16
Balance to surplus, 1903					571 16

PAVING EAST NORTH AVENUE A—VI (43).

Balance brought forward from 1902		$24,284 72
Cobblestones		1,133 00
United Railways and Electric Co		406 02
Total credits		$25,823 74

EXPENDITURES.

Asphalt block paving	27,928.66	sq. yds.	at	$2.42..	$67,587 35	
New 5 inch kerb set	2,310.1	lin. ft.	at	1.00..	2,310 10	
Kerb redressed and reset	4,827.6	"	at	.28..	1,351 72	
Kerb redressed in place	207.4	"	at	.18..	37 33	
Old kerb set as headers	605.9	"	at	.15..	90 88	
" redres'd for headers	605.9	"	at	.05..	30 29	
" reset only	98.1	"	at	.10..	9 81	
Cobble repaving	7,429.9	sq. ft.	at	.04..	297 19	
Total cost of paving, kerbing, etc					$71,714 67	
Engineering, inspection, etc					773 30	
Total gross cost					$72,487 97	
Less:						
Paid to contractor in 1902					$46,849 34	
Charged to paving in front city property (1902)					322 67	47,172 01
Total expenditures in 1903						25,315 96
Surplus of credit						$507 78
Balance to surplus, 1903						507 78

PAVING WARREN AVENUE A—VI (43).

Amount brought forward from 1902		$20,300 00

EXPENDITURES.

Asphalt block paving	7,774.0	sq. yds.	at	$2.27..	$17,646 98	
New 5-inch kerb and circles set	1,327.6	lin. ft.	at	1.00..	1,327 60	
Old kerb redressed and reset	1,389.0	"	at	.28..	388 92	
" " in place	32.0	"	at	.18..	5 76	
" " and reset as headers	243.0	"	at	.20..	48 60	
Old kerb reset only	64.0	"	at	.10..	6 40	
Old flagstones reset	246.0	"	at	.04..	9 84	
Extra work on footways and flagstones					28 42	
Total cost of paving, kerbing, etc					$19,462 52	
Inspection					148 17	
Total gross cost					$19,610 69	
Less penalty 89½ days at $10.00					895 00	
Net cost of Warren avenue					$18,715 69	
Transferred to paving St. Paul street					1,110 18	
" " West North avenue, near Pennsylvania avenue					73 92	
Total expenditures						19,899 79
Surplus of credit						$400 21
Balance to surplus, 1903						400 21

PAVING McCULLOH STREET.

Amount brought forward from 1902							$4,000 00
EXPENDITURES.							
Asphalt block paving	1,287.66	sq. yds.	at	$2.25	$2,897 23		
New 5-inch kerb set	116.7	lin. ft.	at	1.00	116 70		
Old kerb redressed and reset	502.8	"	at	.28	140 78		
" " in place	39.8	"	at	.18	7 16		
Total cost of paving and kerbing					$3,161 87		
Inspection					51 00		
Total expenditures							3,212 87
Surplus of credit							$787 13
Balance to surplus, 1903							787 13

PAVING NORTH AVENUE, NEAR PENNSYLVANIA AVENUE.

Amount brought forward from 1902							$2,424 00
Transferred from Warren avenue							73 92
Total credits							$2,497 92
EXPENDITURES.							
Asphalt block paving	916.5	sq. yds.	at	$2.39	$2,190 43		
New 5-inch kerb set	191.6	lin. ft.	at	1.00	191 60		
Old kerb redressed and reset	93.0	"	at	.23	26 04		
" reset only	22.5	"	at	.10	2 25		
" redressed and reset as headers	142.6	"	at	.20	28 52		
Cobble repaving	65.5	sq. yds.	at	.36	23 58		
Total cost of paving and kerbing					$2,462 42		
Inspection, etc					35 50		
Total expenditures							2,497 92

PAVING ST. PAUL STREET A—VI (43).

Transferred from Warren avenue	$1,110 18
EXPENDITURES.	
Amount paid contractors, balance due	1,110 18

PAVING AND REPAVING CROSS STREETS (SPECIAL).

Balance brought forward from 1902	$323 58
EXPENDITURES.	
Paving East Baltimore street, Grove street to eastern city limits	323 58

FOOTWAY CROSSINGS (SPECIAL) A—VI (43).

Balance brought forward from 1902		$88 99
EXPENDITURES.		
Sand	$ 2 33	
Flagstones	86 66	
Total expenditures		88 99

PAVING IN FRONT OF CITY PROPERTY (SPECIAL) A—VI (43).

Balance brought forward from 1902		$2,261 85
EXPENDITURES.		
Paving East Fayette street, labor and material	$1,339 13	
" footway south side of Patterson Park, labor	3 38	
" " " " " material	802 35	
Repaving " on McCulloh street, labor	23 91	
" " at Federal Hill Park, "	39 00	
" " " Old Southern Police Station, labor	2 45	
" " " Madison Square, labor	13 00	
Labor	38 63	
Total expenditures		2,261 85

SALE OLD MATERIAL IN CITY ENGINEER'S DEPT. A—VI (43).

Received from sale old asphalt blocks, cobblestones, hire stone-crushers, etc	$1,711 55
EXPENDITURES.	
Refunded Nicholas estate	10 00
Surplus of receipts	$1,701 55
Balance paid into the city treasury	1,701 55

STREET CARTS AND MEN A—VI (44).

Original appropriation		$84,240 00
Transferred from Contingent Fund		2,126 50
Total credits		$86,366 50
EXPENDITURES.		
January	$8,502 00	
February	8,663 50	
March	6,681 00	
April	6,543 00	
May	8,323 50	
June	6,261 00	
July	6,382 50	
August	7,705 50	
September	6,318 00	
October	7,770 00	
November	6,453 00	
December	6,745 50	
Total expenditures		86,348 50
Surplus to credit		$18 00
Balance to surplus, 1903		18 00

Ninety-two street carts employed during the year moved 182,997 cart loads, including 10,000 loads of snow.

SWEEPERS AND SCRAPERS A—VI (44).

Original appropriation	$83,200 00
Transferred from Contingent Fund	1,176 24
Total credits	$84,376 24

EXPENDITURES.

January	$7,862 26	
February	7,302 52	
March	6,351 60	
April	6,427 70	
May	8,339 04	
June	6,612 78	
July	6,629 91	
August	8,031 44	
September	6,451 57	
October	7,998 79	
November	6,068 52	
December	6,285 83	
Total expenditures		$84,361 96
Surplus of credit		$14 28
Balance to credit, 1903		14 28

One hundred and sixty sweepers and scrapers were employed during the year 1903.

SWEEPING MACHINES, SPRINKLERS, ETC. A—VI (44).

Original appropriation	$25,000 00
Transferred from Contingent Fund	650 00
Total credits	$25,650 00

EXPENDITURES.

M. J. O'Neil, Contractor, sweeping 4,336 miles of streets at $2.40 per mile	$10,407 00	
P. F. Reddington, 5,558 miles of street at $2.23 per mile	12,394 34	
P. Flanigan & Co., sprinkling	646 50	
H. G. Ellis, carts and pans	180 00	
D. J. Barry Co., ash cans	30 75	
John L. Vaith, repairs on carts	24 50	
Chas. A. Sefton, repairs on machine	60 00	
" " " sprinklers	64 00	
F. Beck, rent	30 00	
A. S. Abell Co., Advertising proposals	40 30	
Herald Pub. Co., " "	18 11	
Evening News Co., " "	15 90	
Austin & Weston Co., castings	14 65	
Salamander Co., fire baskets	48 15	
N. C. R. R. Co., freight	10 00	
Chas. Hvass, new machine	353 00	
E. J. Codd Co., repairs on cart	21 79	
Sundry small bills	6 60	
C. Hvass, carts and pans	488 00	
C. Hvass, machine	364 00	
F. Beck Co., brooms	273 00	
H. H. Meyer, tools	145 50	
Total expenditures		25,636 09
Surplus of credit		$13 91
Balance to surplus, 1903		13 91

TOOLS, REPAIRS, ETC., A—VI (44).

Original appropriation		$2,500 00
Transferred from Contingent Fund		197 26
Total credits		$2,697 26

EXPENDITURES.

F. Beck & Co., brooms	$2,049 50	
John L. Vaith, repairs	143 55	
Bolton Bros., oil and tools	55 84	
Anderson & Ireland, shovels and picks	99 68	
Wilcox Hardware Co., tools	15 00	
Dietrich Bros., picks, etc	42 30	
J. J. Haines & Co.	14 40	
Rents for tool rooms	254 00	
Neuman Bros., repairs	10 50	
Nat. Enameling Co., can spouts	2 25	
Sundry small bills	9 60	
Total expenditures		2,696 62
Surplus of credit		$ 64
Balance to surplus, 1903		64

REVENUE.

Sale of street dirt and pay for hire of street carts	$960 10
Balance paid into the city treasury	960 10

GAS AND MAINTENANCE A—VI (45).

Original appropriation	$137,208 45

EXPENDITURES.

Total cost for maintaining and operating 6,631 street gas lamps, which includes rental of burners, mantels, fixtures, repairs and lamplighters' salaries, as per contract prices	$88,469 93	
Total cost for gas supplied to street lamps, as per contract	45,964 10	
Total cost of gas supplied to city market, halls and Washington Monument	524 00	
Livery for 3 horses and wagons	780 00	
Salaries paid out incident to this account	216 00	
Glass street signs	487 24	
Ornamental sign frames	365 50	
Gas pressure gauges	187 50	
Brass meter seals	78 00	
Repairs to wagon and machinery	49 45	
Miscellaneous items: Hardware, paints, couplings, solder, acid, etc., incident to this account	83 71	
Total expenditures		$137,205 43
Surplus of credit		$3 02
Balance to surplus, 1903		3 02

ELECTRIC LIGHTS AND MAINTENANCE A—VI (45).

Original appropriation		$158,548 28
EXPENDITURES.		
Total cost for 1,577 electric arc lamps for the year 1903, as per contract	$154,959 83	
Total cost for 26 electric arc lamps in parks and squares adjoining public streets	2,594 94	
Total cost for incandescent electric lights, No. 6 Engine House clock	171 30	
Cost for labor for changing location of electric lamps throughout the city, as directed by the Department.	495 95	
Installing electric am-meters	124 64	
Enameled street signs (electric light district)	24 00	
Charts for am-meters	39 00	
Repairing am-meters, ink, etc	100 56	
Total expenditures		$158,510 22
Surplus of credit		$38 06
Balance to surplus, 1903		38 06

NAPHTHA LAMPS AND MAINTENANCE A—VI (45).

Original appropriation		$28,084 38
EXPENDITURES.		
Total cost for maintaining and operating 1,089 naphtha (incandescent) lamps, which includes rental of burners, mantles, fixtures, repairs and salaries of lamplighters, as per contract	$25,561 29	
Salaries paid out incident to this account	110 00	
Total expenditures		25,671 29
Surplus of credit		$2,413 09
Balance to surplus, 1903		2,413 09

SPECIAL ILLUMINATION PUBLIC BUILDING, ETC., A—VI (45).

Original appropriation		$25,000 00
EXPENDITURES.		
Advertising for proposals	$ 164 56	
Cost:		
Construction of the electrical work, viz: Court of Honor, City Hall dome, loops or festoons, outlining No. 6 Engine House, drapery effect front City Hall, outlining band stands in Patterson and Druid Hill parks, two (2) search-lights, outlining observatory, Patterson park, outlining Shot Tower, rental of electric waving flag, etc.	19,311 17	
Building, erecting, painting and removing three (3) arches; on Baltimore and Gay streets, Baltimore and Light streets, and Baltimore and Eutaw streets	1,709 25	
Construction of electrical work on the three (3) arches on Baltimore street	2,207 85	
Current for all conventions	1,406 20	
Repaving street openings (arches and columns)	33 32	
Total expenditures		24,832 35
Surplus of credit		$167 65
Balance to surplus, 1903		167 65

REVENUE.

Amount received for inspection gas meters, sale old material, etc..	$2,764 26
" refunded to sundry persons whose meters were incorrect, etc.	50 34
Surplus of receipts	$2,713 92
Balance paid into the city treasury	2,713 92

NAPHTHA LAMPS AND MAINTENANCE (SPECIAL) A—VI (45).

Amount brought forward from 1902	$278 47

EXPENDITURES.

American Lighting Company for lighting service May, June, July and August, 1902	278 47

GARBAGE COLLECTION AND DISPOSAL (CONTRACT) A—VI (46).

Original appropriation	$147,300 00
Transferred from Contingent Fund	629 95
Total credits	$147,929 95

EXPENDITURES.

January, F. W. Feldner	$12,904 95	
February, "	12,275 00	
March, "	12,275 00	
April, Baltimore Sanitary Contracting Co	12,275 00	
May, " " " "	12,275 00	
June, " " " "	12,195 00	
July, " " " "	12,215 00	
August, " " " "	12,265 00	
September, " " " "	12,263 00	
October " " " "	12,275 00	
November " " " "	12,275 00	
December " " " "	12,275 00	
Total expenditures		$147,767 95
Surplus of credit		$162 00
Balance to surplus, 1903		162 00

Collected 48,787 sanitary cart loads, equivalent to 65,049 city carts—being one-third larger.

Collected 172,931 sanitary cart loads ashes, etc., equivalent to 230,575 city carts.

REMOVAL OF GARBAGE (DEFICIENCY 1902).

Original appropriation	$7,273 76

EXPENDITURES.

F. W. Feldner, contractor	7,273 76

FORFEITURE OF CONTRACTS A—VI (46).

Amount brought forward from 1903	$1,000 00	
Mr. Hammett	100 00	
Total		$1,100 00
Paid into the city treasury	$1,000 00	
Balance carried forward to 1904	100 00	1,100 00

CLEANING SEWERS AND INLETS—A VI (47).

Original appropriation	$11,466 00

EXPENDITURES.

12 monthly pay rolls	$9,899 95	
J. L. Vaeth, repairs	184 98	
Dietrich Bros., repairs	62 50	
George P. Thomas, Jr., hose and boots	523 16	
Bolton Bros., supplies	256 21	
James King & Co., wagon	160 00	
F. Beck Co., brooms	129 00	
J. Regester's Sons, supplies	10 99	
C. Hvass, tools	9 00	
Salamander Co., iron baskets	96 30	
H. P. McElroy, repairing carts	87 00	
Anderson & Ireland, tools	10 30	
Baltimore Awning Co	6 00	
Sundry small bills	22 04	
Total expenditures		11,457 43
Surplus to credit		$8 57
Balance to surplus, 1903		8 57

Fifteen men and 2 carts were employed moving 5,000 loads from sewers and inlets.

IMPROVEMENTS AND ADDITION TO DRAINAGE SYSTEM A—VI (47).

Original appropriation	$7,000 00
National Building Supply Co., for empty bags	51 00
Balance brought forward to 1902	169 37
Total credits	$7,220 37

EXPENDITURES.

Ogier's Run sewer and Hare and Patuxent street laterals:			
Excavation 342 cu. yds. at $1.00	$342 00		
Concrete, including stone, cement, sand and labor, 308 cu. yds. at $5.08	1,564 64		
Brick invert, including bricks, sand, cement and labor, 255 sq. yds. at $1.94	494 70		
Refilling 2,669 cu. yds. at 10c	266 90		
Terra-cotta pipe	156 80		
Repairs to engine	69 64		
Hardware, tools, hauling, etc	86 66		
Patuxent street lateral (excav. pipe, etc.)	922 03		
Incidentals, such as digging ditch for outlet, temporary inlet, pumping drains, etc	129 33		
Foreman	150 00		
Watchmen	82 00		
Sewer pipe hauled to city yard	62 11		
		$4,326 81	
Sewer in Twenty-ninth street and Hudson alley		2,558 72	
New inlets to existing sewers		311 97	
Inlets repaired		22 87	
Total expenditures			7,220 37

REPAIRS TO SEWERS A—VI (47).

Original appropriation	$24,500 00
Balance brought forward from 1902	1,191 97
Total credits	25,691 97

EXPENDITURES.

Ogier's Run sewer, Hare and Patuxent street laterals			$420 87	
Twenty-ninth street and Hudson alley sewer			488 81	
New inlets to existing sewers			5,564 98	
New manholes to existing sewers			343 11	
Inlets remodeled and trapped			2,046 83	
Manholes in inlet covers			414 90	
Inlets cleaned of obstructions			42 12	
" repaired			6,358 83	
Repairs to the Bottom of Sewers.				
Centre street sewer:				
Granite blocks	$207 30			
Cement and sand	64 63			
Labor superintendence and incidentals	987 67			
		1,259 60		
Jenkins' Run sewer:				
Granite blocks	$444 75			
Cement and sand	226 35			
Labor superintendence and incidentals	1,440 07			
		2,111 17		
Lovegrove alley sewer:				
Granite blocks	$391 75			
Cement and sand	179 13			
Labor superintendence and incidentals	1,876 00			
		2,446 88		
Central avenue sewer:				
Granite blocks	$428 80			
Cement and sand	188 85			
Labor, superintendence and incidentals	1,620 56			
		2,238 21	8,055 86	
15-in. drain on Baltimore street, between Howard and Liberty streets			1,095 25	
Total expenditures				24,831 56
Surplus of credit				$860 41
Balance carried forward to 1904				860 41

SUMWALT RUN CULVERT A—VI (47).

Transferred from Contingent Fund		$1,400 00

EXPENDITURES.

Sand	$91 82	
Dirt	9 02	
Stone	24 01	
Cement	358 07	
Brick	36 00	
Rubber boots	5 00	
Oils, lamps, etc	25 94	
Rental cement mixer	50 00	
Hauling	11 00	
Labor	789 14	
Total expenditures		1,400 00

SEWER FOR SCHOOL No. 69.

Transferred from Contingent Fund		$4,251 50

EXPENDITURES.

Excavation, including timbering and refilling 1,586 cu. yds. at $1.16	1,839 76	
Laying pipes, including cement, sand and labor 1,308 lin. ft. at $ .20	261 60	
12-inch terra-cotta pipes, 1,300 lin. ft. at $ .31	403 00	
Hauling	105 50	
Hardware, tools, etc	95 87	
Lumber	76 63	
Incidentals	134 64	
Foreman	379 50	
Watchman	148 00	
Total expenditures		3,444 50
Surplus of credit		$807 00
Balance to surplus, 1903		807 00

REPAIRS TO DRAIN IN LIPPS' LANE.

Transferred from Contingent Fund	$160 00
Balance to surplus, 1903	160 00

OGIER'S RUN SEWER, HARE AND PATUXENT STREETS LATERALS (SPECIAL) A—VI (47).

Balance brought forward from 1902		$33 08

EXPENDITURES.

Labor	$22 08	
Terra-cotta pipe	8 00	
One-half ton Cumberland coal	3 00	
Total expenditures		33 08

CANTON STREET SEWER A—VI (47).

Balance brought forward from 1902	$1,403 72
Balance carried forward to 1904	1,403 72

IMP. HARFORD RUN SEWER.

Balance brought forward from 1902	$3,096 89
Balance carried forward to 1904	3,096 89

MAINTENANCE BRIDGES AND CULVERTS A—VI (48).

Original appropriation	$34,060 00
Transferred from Contingent Fund	1,775 00
Total credits	$35,835 00

EXPENDITURES.

	Labor.	*Material.*	*Total.*	
Aliceanna st. and Central ave. bridge:				
Ferro-concrete	$439 19	$693 02	$1,132 21	
Argyle avenue bridge:				
New single floor	137 06	316 00		
Cleaning	297 89	.....		
Painting (princess metallic)	92 38	38 83		
	$527 33	$354 83	882 16	
Bath street bridge:				
Repairs to roadway	3 00	4 18		
Repairs to handrail	30 00	.....		
Relaying roadway floor with lumber taken up from Chase st. bridge	78 69	2 80		
	$111 69	$ 6 98	118 67	
Beech avenue bridge;				
Unpaid bill from 1901	.....	1 02	1 02	
Beech avenue culvert:				
Ferro-concrete culvert	210 27	212 75		
Earth fill	146 82	.....		
	$357 09	$212 75	569 84	
Biddle street bridge:				
Cleaning	800 22	1 02		
Painting (princess metallic)	339 94	157 10		
	$1,140 16	$158 12	1,298 28	
Block street bridge:				
Supplies	.....	70 36		
Repairs to machinery	9 47	13 41		
New roadway floor	277 77	1,124 95		
Fender piles	135 94	228 80		
Covering enginehouse roof	.....	25 00		
	$423 18	$1,462 52	1,885 70	
Calverton road bridge:				
Concrete arch	1,530 38	1,389 93	2,920 31	
Amounts carried forward			$8,808 19	$35,835 00

	Labor.	*Material.*	*Total.*	
Amounts brought forward			$8,808 19	$35,835 00
Canton avenue bridge:				
New roadway floor	$97 10	$250 94		
Repairs to footway	2 09	4 76		
	$99 19	$255 70	354 89	
Canton ave. and Central ave. bridge:				
Ferro-concrete	284 34	388 57	672 91	
Cedar avenue bridge:				
Repairs to roadway floor	17 00	.....	17 00	
Centre street bridge:				
Repairs to roadway	2 50	.....		
Relaying roadway floor and stringers with old lumber	343 55	11 40		
Cleaning	54 51	.....		
Painting (etna)	48 12	14 00		
Concrete mud-walls	10 00	26 02		
Repairs to handrail	12 00	.....		
	$470 68	$51 42	522 10	
Chase street bridge:				
Repairs to handrail	6 09	.....		
Repairs to roadway floor	14 59	.....		
Tearing out old floor, new creo-resinate wood roadway and stringers	608 65	4,025 52		
Cleaning below floor	144 50	1 00		
Painting below floor (princess metallic)	64 06	18 17		
Cleaning truss, etc	259 59	1 22		
Painting truss, etc., (carrara)	191 26	76 76		
Repairs to footway	27 04	2 50		
	$1,315 78	$4,125 17	5,440 95	
Clipper Mill bridge:				
Repairs	10 67	.....	10 67	
Columbia avenue bridge:				
Repairs to footway	2 09	4 36	6 45	
Dead Run bridge:				
Unpaid bill from 1901	.....	30 67	30 67	
Eager street bridge:				
Repairs to footway	3 25	.....	3 25	
Eastern avenue bridge:				
Repairs to roadway	4 58	.....		
Repairs to footway	5 00	10 73		
Painting (etna)	10 00	6 40		
New creo-resinate wood roadway and stringers	404 53	1,836 95		
	$424 11	$1,854 08	2,278 19	
Amounts carried forward			$18,145 27	$35,835 00

	Labor.	*Material.*	*Total.*	
Amounts brought forward			$18,145 27	$35,835 00
Edmondson avenue bridge (over Gwynn's falls):				
Making survey.....	$ 9 17	.....	9 17	
Falls road bridge:				
Putting in I beams and repairs....	12 16	.....	12 16	
Fayette street bridge:				
Repairs to roadway.....	7 63	.....	7 63	
Friendship street bridge:				
Rebuilding	106 97	$106 69	213 66	
Guilford avenue bridge:				
Repairs to footway.....	4 66	9 29	13 95	
Hillen street bridge:				
New roadway floor, both sides....	59 50	502 79	562 29	
Jenkins' lane bridge:				
Repairs to roadway	7 42	.....	7 42	
Kate avenue bridge:				
Repairs	4 01	.....	4 01	
Lancaster street and Central avenue bridge (completed):				
Ferro-concrete and vitrified brick floor	81 39	329 88	411 27	
Leadenhall st. and Stockholm st. bridge:				
Repairs to roadway	10 00	.....	10 00	
Lexington st. bridge (over Gwynn's run):				
Repairs	2 83	.....	2 83	
Lombard street bridge:				
Repairs to footway.....	2 50	5 57	8 07	
Madison st. bridge (not completed):				
Repairs to roadway.....	8 75	14 56		
Removing old floor and unloading lumber.....	118 04	.....		
New treated lumber and paving blocks.....	.....	1,400 64		
	$126 79	$1,415 20	1,541 99	
Maryland avenue bridge:				
Repairs to floor	5 42	26 65		
" footway	84	.....		
New floor, east side	134 10	75 65		
	$140 36	$102 30	242 66	
Amounts carried forward.....			$21,192 38	$35,835 00

	Labor.	Material.	Total.	
Amounts brought forward			$21,192 38	$35,835 00
Merryman's lane bridge:				
Building wing wall and foot wall..	$293 25	$463 45		
Excavation and hauling.....	52 96	.....		
Underpinning and pointing up old east abutment	92 27	30 35		
Tearing out old approach.....	20 80	.....		
1,718.5 cu. yds. earth fill at 40c...	687 40	.....		
Handrail on fill.....	20 00	.....		
New double roadway floor.....	77 96	242 70		
	$1,244 64	$736 50	1,981 14	
Monroe street, north, bridge:				
Repairs to footway.....	1 00	.....	1 00	
Monroe street, south, bridge:				
New footways.....	95 73	318 54		
Repairs to handrail sill east side ..	25 49	13 96		
	$121 22	$332 50	453 72	
Monroe street, south, culvert:				
Repairs.....	11 67	6 02	17 69	
Mount Vernon avenue viaduct:				
Tearing out old work	$160 40	.....		
New roadway, footway and stringers	591 16	3,012 73		
Masonry	94 04	67 95		
Watchman	248 15	.....		
Painting (etna and princess metallic)	301 83	126 32		
Scraping and scaffolding	916 41	2 00		
Concrete around columns	11 67	7 65		
Repairs to truss.....	9 00	19 00		
Wire panel handrail.....	.....	1,536 15		
Crib work and filling in approaches	22 38	12 25		
Rebuilding pedestal and repairs to abutments.....	96 24	72 09		
Filling washout.....	48 12	.....		
	$2,499 40	$4,856 19	7,355 59	
Nanticoke and Stockholm sts. bridge:				
New floor.....	5 00	5 71	10 71	
Old Liberty road bridge:				
Rebuilding ferro-concrete.....	206 92	176 75		
Macadam	6 67	31 90		
	$213 59	$208 65	422 24	
Old Liberty road culvert:				
Rebuilding ferro-concrete.....	33 00	36 34		
Macadam	1 67	4 98		
	$34 67	$41 32	75 99	
Philadelphia road bridge:				
Repairs to roadway floor	10 00	51 39	61 39	
Preston street bridge:				
Repairs to footway.....	2 59	8 04	10 63	
Amounts carried forward.....			$31,582 48	$35,835 00

	Labor.	*Material.*	*Total.*	
Amounts brought forward			$31,582 48	$35,835 00
Ramsay street bridge:				
Repairs to wall	$16 50	$22 78	39 28	
Reese street bridge:				
Ferro-concrete floor.....	58 63	72 40	131 03	
St. Paul street bridge:				
Repairs to plates under bottom end.	5 25	.....		
" roadway	2 83	.....		
	$8 08	.....	8 08	
Slingluff avenue bridge (south of North avenue:)				
Repairs to roadway	63	.....	63	
Union ave. bridge (over Jones' Falls):				
Rebuilding wing walls.....	564 76	$450 75		
Handrail and repairs.....	46 09	86 70		
	$610 85	$537 45	1,148 30	
Union ave. culvert (over mill race):				
Ferro-concrete culvert.....	1,326 44	1,184 28	2,510 72	
Wilkins avenue bridge:				
Repairs to footway.....	1 25	.....	1 25	
Miscellaneous bridges:				
Blacksmith, tools, oils, etc.....	23 27	91 54	119 81	
Total expenditures	$13,925 95	$21,615 63		35,541 58
Surplus of credits				$293 42
Balance carried forward to 1904.....				293 42

MAINTENANCE BLOCK STREET DRAWBRIDGE A—VI (48).

Original appropriation.....	$1,350 00

EXPENDITURES.

Keeper, Charles J. Tiedebohl, salary 12 months, 1903..	$750 00	
Asst." Michael P. Gauley, " 12 " 1903..	600 00	
Total expenditures		1,350 00

MAINTENANCE LIGHT STREET DRAWBRIDGE A—VI (48).

Original appropriation $7,880 00

EXPENDITURES.

Items.	*Labor.*	*Material.*	
Engineer and bridge tenders	$3,245 26	.....	
Coal, $155.51; hardware, oil, etc	.....	$266 50	
Repairs and renewal of roadway floor	207 71	.....	
" " " footway "	61 67	29 32	
" to trestle work	135 46	.....	
" " machinery and boilers	48 44	61 05	
" " buildings	93 08	146 46	
" " handrail	126 63	25 13	
Fenders around draw pier	169 04	.....	
Lumber piers	125 97	7 32	
Sweeping bridge	129 53	.....	
New lumber (not yet used)	.....	2,297 66	
Cleaning and painting draw span	423 56	55 60	
Ferry Bar footway, north of bridge	92 23	18 00	
Launch-way, north of draw	32 41	72 33	
	$4,890 99	$2,979 37	
Total expenditures			7,870 36
Surplus of credit			$9 64
Balance to surplus, 1903			9 64

MAINTENANCE PROPERTY YARD A—VI (49).

Original appropriation $1,500 00

EXPENDITURES.

Salary of Superintendent of yard	$720 00	
" asst, "	660 00	
Coal for office and blacksmith	13 88	
Ice	12 07	
Slag roof for blacksmith shop	18 00	
Tar paper, tins and nails, repairing sheds	3 00	
Tin spouting for sheds	22 60	
Blower for forge	12 00	
Water pipe nipple	25	
Paint brushes and tallow	2 10	
Files	1 34	
Brushes and reflector	2 10	
Window lights	1 96	
Total expenditures		1,469 30
Surplus of credit		$30 70
Balance to surplus, 1903		30 70

INSURANCE ON CITY PROPERTY A—VI (49).

Original appropriation $1,500 00

EXPENDITURES.

Boilers, Bay View Asylum	$ 85 00	
Consumptives' Hospital, Bay View Asylum	180 00	
Total expenditures		265 00
Surplus of credits		$1,235 00
Balance to surplus, 1903		1,235 00

COMMISSION WIDENING LIGHT STREET A—VI (49).

Original appropriation		$500 00
EXPENDITURES.		
A. Robinson White, services as expert valuing property.	$150 00	
Chas. Matt, " " " "	150 00	
Florence E. Harker, stenographer	25 00	
Rent, McComas hall	2 00	
Total expenditures		327 00
Surplus of credit		$173 00
Balance to surplus, 1903		173 00

SALE OF LOT, ELM AND MOSHER STREETS A—VI (49),

Received from Mr. Brady for lot		$423 00
EXPENDITURES.		
Advertising sale in Baltimore American	$ 7 80	
" " " Evening News	3 15	
Patterson and Gahan, auctioneers	18 80	
Total expenditures		29 75
Surplus of credit		$393 25
Balance carried forward to 1904		393 25

WATER ENGINEER'S DEPARTMENT A—VI (51).

Original appropriation, salaries		$85,730 00
EXPENDITURES.		
Salaries to December 15, 1903:		
Water Engineer, Alfred M. Quick	$3,999 96	
Secretary to Board and Engineer, James R. Read	1,437 50	
Assistant Engineer, Robert L. Clemmitt	1,812 50	
Civil Engineer, Emory Sudler	1,375 00	
Draftsman, John Weber	1,062 50	
" A. O. Babendreier	1,250 00	
" W. J. Fizone	1,250 00	
" Wm. J. West	1,125 00	
Clerk, Wm. L. Hawkins	750 00	
" C. L. Rector	1,062 50	
" Thomas P. Bolgiano	1,062 50	
Meter Tester, Frank Phillips	937 50	
Rodman, Theo. J. Tubman	750 00	
Auditor, Charles W. Nagle	1,812 50	
Paymaster and Ledger Clerk, J. P. Huppmann	1,500 00	
Order Clerk, C. L. Gambrill	1,062 50	
Roll " J. M. Torney	1,000 00	
Journal " W. F. Yost	1,250 00	
Superintendent of Construction, George R. Truelove	1,812 50	
General Foreman, M. F. Gorman	1,375 00	
Foreman of Paving, J. W. McCaffrey	1,125 00	
Foreman of Wagons, John L. Lang	937 50	
Amounts carried forward	$29,749 96	$85,730 00

Amounts brought forward	$29,749 96	$85,730 00
Chief Clerk Construction Division, W. S. Carr, Jr	1,062 50	
Storeroom Keeper, George A. Bayles	1,000 00	
Bookkeeper, Herman Zapf	1,000 00	
Time Clerk, A. S. Frank	937 50	
Office Clerk, Alex. Barber	937 50	
" O. C. Berry	937 50	
Auditing Clerk, B. H. Geipe	875 00	
Watchman, Conrad Stamm	687 50	
" Dennis Loden	625 00	
Assistant Clerk, A. S. Bryan	750 00	
Superintendent Mechanical Division, E. G. Rost	1,812 50	
Chief Clerk and Storekeeper, E. C. Schofield	1,062 50	
Office Clerk, George E. Lane	937 50	
" W. H. Steiner	875 00	
Yard Clerk, John Y. Harten	875 00	
" Foreman, George W. Reppert	937 50	
Inspector of Hauling, Charles P. Schlarb	875 00	
Engineer, J. T. Omohundro	1,187 50	
Watchman, John Driscoll	687 50	
" W. T. Fitzpatrick	407 06	
Hostler, James McNally	180 00	
Assistant Hostler, Wm. Heinstedt	616 72	
Fireman, F. A. McFadden	750 00	
" E. Connolly	750 00	
" J. Slemeker, Jr	750 00	
Oiler, Logan G. Miller	750 00	
Engineer, J. L. Boyd	285 00	
" L. M. Flaherty	1,062 50	
Dynamo Engineer, W. M. Davis	490 81	
" W. H. Hyman	1,177 50	
Conveyor Engineer, A. J. Benner	1,177 50	
Oiler, John W. Granger	750 00	
" J. E. Murphy	750 00	
" Jacob Bruner	740 32	
Fireman, Pat. Prendergast	812 50	
" J. H. Kraft	812 50	
" H. Schmidt	812 50	
Engineer, Otto Boettger	1,187 50	
" W. H. Coyle	165 48	
" U. G. Hanson	1,187 50	
Oiler, Albert McBurney	750 00	
" N. Kranning	750 00	
" and Engineer, George E. Beazley	1,062 50	
Fireman, W. W. Fuller	812 50	
" Daniel Elliott	777 91	
Superintendent and Engineer, Wm. Benthall	2,083 25	
Keeper, Wm. L. Kenly	812 50	
Night Watchman, August Dames	625 00	
Keeper, George Kelly	812 50	
" John Devoy	750 00	
" J. W. Devlin	625 00	
" John Van Horn	812 50	
" John Boone	812 50	
Patrolman, F. A. Zimmerman	750 00	
" C. L. Cross	750 00	
Keeper, M. Dapprich	812 50	
Gatekeeper, R. J. Foley	750 00	
Night Watchman, W. W. Grace	250 00	
Keeper, A. J. Forrest	750 00	
Engineer, Sebastian Waldhauser	916 07	
Amounts carried forward	$79,892 58	$85,730 00

Amounts brought forward	$79,892 58	$85,730 00
Dynamo Engineer, W. E. Moore	872 02	
Conveyor " T. W. Manning	404 44	
Engineer, Thomas E. Kelly	632 82	
Fireman, E. F. P. Burke	371 12	
Oiler, Edward Swissler	643 55	
" John Payton	612 86	
Fireman, Antom Matjousky	227 50	
Hostler, Daniel Strube	223 55	
Watchman, Guy Radcliffe	206 69	
Draftsman, W. W. Cushing	40 00	
Rodman, H. A. Jones	30 00	
Total expenditures		84,157 13
Surplus of credit		$1,572 87
Balance to Water Board Revenue account		1,572 87

WATER ENGINEER'S DEPARTMENT A—VI (51).

Original appropriation, expenses	$362,700 00
Wages returned, etc	28 14
Amount brought forward from 1902	4,492 15
Total credits	$367,220 29

EXPENDITURES.

Books, stationery and printing	$1,968 20	
Drawing materials	90 71	
Furniture and fixtures	151 00	
Light and fuel	45,909 08	
Labor	197,532 84	
Hauling	1,004 52	
Tools and hardware	6,632 00	
Machinery	.....	
Cast iron pipe	19,949 31	
" " fittings	9,816 34	
Special iron castings	5,710 09	
Valves	2,463 06	
Wrought iron pipe and fittings	1,931 33	
Service pipe and fittings	11,366 31	
Brass castings	5,668 64	
Bar iron and steel	913 78	
Meters	6,995 37	
Lead	5,476 81	
Lumber	2,115 63	
Rope and packing	541 65	
Grease, paints, waste and oils	3,455 84	
Rubber	1,005 95	
Bricks, stone, and cement	2,415 95	
Sand, gravel, and ashes	132 00	
Asphalt paving	1,731 52	
Feed	2,056 81	
Insurance	438 69	
Current expenses	7,949 20	
Miscellaneous expenses	10,075 10	
Venturi meters	9,287 49	
Total expenditures		364,785 22
Surplus of credit		$2,435 07
Balance to Water Board Revenue account		2,435 07

Meters.

Amount paid for meters, plumbing, etc	$12,733 19
Less amount received for plumbing, work, etc	5,737 82
Surplus of expenditures	$6,995 37
Balance transfer to Water Engineer, expenses	6,995 37

COLLECTOR OF WATER RENTS AND LICENSES A—VI (51).

Original appropriation, salaries $22,600 00

EXPENDITURES.

Collector of Water Rents and Licenses, Carlton Shafer	$1,901 85	
" " " " J. Spencer Clarke	598 11	
General Bookkeeper, Otis C. Brownley	1,399 94	
Cashier, A. Stanley Wier	1,400 04	
Credit Clerk and Asst. Cashier, John H. R. Nicholson	1,161 28	
Chief Clerk, James J. Scully	1,299 96	
Ledger Clerk, Wm. I. Hickey	1,100 00	
" Wm. E. Busey	1,135 48	
" Percy L. Reinhart	1,200 00	
" Aug. A. Doyle	1,200 00	
" Pat. R. Welsh	1,100 00	
" Fred. W. Lustnauer	1,200 00	
" Edw. J. Edwards	1,100 00	
Meter Clerk, Sam'l J. Schenkel	1,100 00	
New Supply Clerk, Mat. T. Valentine	1,200 00	
Ledger Clerk, Charles R. P. Brown	100 00	
" Wm. E. Martin	100 00	
" James E. Burke	100 00	
" Robert K. Lewis	100 00	
" Alfred C. Smith	100 00	
Inspector and Bill Distributor, Septimus J. Bunting	916 63	
" " James E. Welsh	999 96	
" " Sam'l A. Hart	999 96	
" " Geo. A. Vernetson	999 96	
" " Thomas F. Herr	83 33	
Total expenditures		22,596 50
Surplus of credit		$3 50
Balance to Water Board Revenue account		3 50

Original appropriation, expenses $387,511 00

EXPENDITURES.

Interest on Water Loans	$380,000 00	
Blank books, stationery, and printing	557 67	
Postage stamps	217 00	
Advertising	96 85	
Telephone rental	47 80	
Car tickets	40 00	
Meals	45 00	
Rubber stamps	17 28	
Extra clerk hire	12 00	
Newspapers	7 56	
Directory	6 00	
Satchel, etc	2 35	
Total expenditures		381,049 51
Surplus of credit		$6,461 49
Balance to Water Board Revenue account		6,461 49

NEW STORAGE HOUSE A—VI (51).

Original appropriation		$ 9,000 00
Amount brought forward from 1902		21,596 02
Total credits		$30,596 02

EXPENDITURES.

January 30, to cash paid contractor	$ 904 50	
February 28, " "	1,631 71	
March 31, " "	2,325 55	
April 30, " "	5,217 44	
May 30, " "	5,589 00	
June 30, " "	1,350 00	
July 31, " "	1,710 00	
August 31, " "	1,080 00	
September 30, " "	1,706 44	
October 30, " "	1,552 50	
November 27, " "	3,618 90	
December 31, " "	1,123 20	
Total expenditures		27,809 24
Surplus of credit		$2,786 78
Balance carried forward to 1904		2,786 78

DREDGING LOCH RAVEN A—VI (51).

Original appropriation		$26,508 79

EXPENDITURES.

Light and fuel	$4,804 68	
Labor	15,784 75	
Tools and hardware	96 70	
Machinery	603 75	
W. I. pipe and fittings	202 92	
Bar iron and steel	67 29	
Lumber	293 68	
Rope and packing	485 20	
Grease, paints, waste and oils	1,490 38	
Rubber	697 50	
Current expenses	1,428 44	
Sundries	553 50	
Total expenditures		26,508 79

EXTENSION WATER SUPPLY, EAST OF JONES' FALLS A—VI (51).

Original appropriation		$33,902 40

EXPENDITURES.

Labor	$5,274 24	
Cast-iron pipe	25,351 75	
" fittings	2,606 14	
Lumber	8 68	
Grease, waste, paints and oils	266 69	
Valves	110 88	
Sundries	284 02	
Total expenditures		33,902 40

EXTENSION WATER SUPPLY, WEST OF GWYNN'S FALLS A—VI (51).

Original appropriation	$673 09

EXPENDITURES.

Labor	$673 09

LOT FOR AND CONSTRUCTION OF NEW RESERVOIR A—VI (51).

Original appropriation	$350,000 00

EXPENDITURES.

W. I. pipe and fittings	$36 90	
Lumber	75 00	
Tools and hardware	30 00	
Total expenditures		141 90
Surplus of credit		$349,858 10
Balance carried forward to 1904		349,858 10

REVENUE.

Received for water rents, sale old material, rents, etc. for 1903	$857,991 52

EXPENDITURES.

Amount returned on account of errors, discontinuance of water, etc.	923 45
Net revenue	$857,068 07

Disbursed as follows:

Collector Water Rents and Licenses, salaries	$22,596 50	
" " " expenses	381,049 51	
Water Engineer's Department, salaries	84,157 13	
" " expenses	360,264 93	
New storage house, Gay street yard	9,000 00	
Total expenditures		$857,068 07
Received water rents payable in 1904		$7,743 48
Balance carried forward to 1904		7,743 48

GROUND RENTS ON CITY PROPERTY A—VI (52).

Original appropriation $51,000 00

EXPENDITURES.

School No.	1	$354 00	
" "	2	281 25	
" "	3	175 00	
" "	4	315 00	
" "	5	600 00	
" "	6	112 50	
" "	8	306 84	
" "	9	1,094 75	
" "	10	200 00	
" "	11	757 00	
" "	12	468 00	
" "	13	530 00	
" "	14	840 00	
" "	15	1,050 00	
" "	16	790 00	
" "	17	217 00	
" "	20	592 00	
" "	21	320 00	
" "	22	177 50	
" "	23	112 50	
" "	26	126 00	
" "	27	329 75	
" "	28	270 00	
" "	29	570 00	
" "	30	750 00	
" "	31	228 00	
" "	34	192 50	
" "	42	44 44	
" "	43	900 00	
" "	44	600 00	
" "	45	600 00	
" "	46	800 00	
" "	47	1,001 00	
" "	48	700 00	
" "	58	22 50	
" "	60	480 00	
" "	61	1,155 00	
" "	66	50 00	
" "	67	360 00	
" "	68	240 00	
" "	70	175 00	
" "	71	19 00	
" "	72	620 62	
" "	73	25 00	
" "	75	400 00	
" "	76	350 00	
" "	77	581 25	
" "	78	480 00	
" "	79	1,020 00	
" "	81	620 00	
" "	82	468 66	
" "	91	1,462 50	
" "	92	372 50	
" "	93	1,300 00	
" "	94	501 75	
" "	96	480 00	
" "	100	600 00	
" "	101	200 00	
" "	102	120 00	
" "	106	192 00	
Amounts carried forward		$28,700 81	$51,000 00

Amounts brought forward	$28,700 81	$51,000 00
School No. 107	70 00	
" " 108	134 00	
" " 109	300 00	
" " 110	480 00	
" " 111	959 75	
" " 112	630 00	
" " 115	50 00	
" " 116	150 00	
Fourth Regiment Armory	1,188 00	
Eastern Female High School	615 90	
Baltimore City College	4,600 00	
Baltimore Polytechnic Institute	220 00	
Colored High School	1,500 00	
Engine House No. 2	31 25	
" " " 3	150 00	
" " " 6	62 00	
" " " 7	156 00	
" " " 11	123 75	
" " " 12	150 00	
Hook and Ladder No. 1	161 50	
" " " 7	75 00	
Chemical Company No. 2	72 00	
" " " 3	40 00	
Northeast market	1,200 00	
Cross street "	974 00	
Lexington "	228 00	
Central Police station	60 00	
City Hall	56 00	
Old City Hall	306 00	
Collington square	960 00	
Riverside park	3,770 62	
Perkins Spring square	2,052 00	
Federal Hill park	37 50	
Lot on Stiles street	160 00	
Property yard	540 00	
Total expenditures (of this amount the Commissioners of Finance received $26,732.88)		50,964 08
Surplus of credit		$35 92
Balance to surplus, 1903		35 92

RENTALS FROM CITY PROPERTY A—VI (52).

RECEIPTS.

Balance from 1902		$1,608 09
Old Engine house, Belair avenue	$80 00	
Property on lot, Pennsylvania avenue, intended for Colored High School, P. E. Dugan & Nephew	990 57	
State's Attorney's office, Courthouse	1,237 50	
Old Southern Police Station, Salvation Army	130 00	
Bed Lovegrove alley at North avenue, Frank Ferrari	45 00	
Lot on Stiles street, near High, N. Franck & Co.	160 00	
Old City Hall, North Holliday street, Water Dept.	612 00	
Lot on Hollins st. for add'n to School No. 30, Owen Gawthrop	189 00	
Thos. Belli, Wine alley and Charles street	39 00	
Lot, Ramsay st., for add'n to School No. 96, Richardson	15 00	3,498 07
		$5,106 16

EXPENDITURES.

Advertising lot, President street		36 61
Net balance		$5,069 55
Balance carried forward to 1904		5,069 55

SALARIES ASSISTANT MARKET MASTERS A—VI (53).

Original appropriation		$6,400 00

EXPENDITURES.

Assistant Market Master, Centre Market, Kemp Hoen, 6 months to June 1	$300 00	
Assistant Market Master, Centre Market, Chas. C. Sanner, 6 months to December 1	300 00	
Assistant Market Master, Lexington Market, Wm. Dearing, 6 months to June 1	450 00	
Assistant Market Master, Lexington Market, Chas. W. Brown, 6 months to December 1	450 00	
Assistant Market Master, Hanover Market, Geo. H. Oppman, 6 months to June 1	225 00	
Assistant Market Master, Hanover Market, Alonzo T. Jones, 6 months to December 1	225 00	
Assistant Market Master, Fell's Point Market, Chas. H. Buck, 6 months to June 1	300 00	
Assistant Market Master, Fell's Point Market, Henry P. Hoffman, 6 months to December 1	300 00	
Assistant Market Master, Belair Market, Jno. D. Ross, 6 months to June 1	450 00	
Assistant Market Master, Belair Market, Sam'l W. Faird, 6 months to December 1	450 00	
Assistant Market Master, Hollins Market, Joseph Rosenthal, 6 months to June 1	250 00	
Assistant Market Master, Hollins Market, Thos. J. Robosson, 6 months to December 1	250 00	
Assistant Market Master, Richmond Market, John T. Brown, 6 months to June 1	225 00	
Assistant Market Master, Richmond Market, John B. Zink, 6 months to December 1	225 00	
Assistant Market Master, Cross street Market, John Mack, 6 months to June 1	350 00	
Assistant Market Master, Cross street Market, Edw. J. Styles, 6 months to December 1	350 00	
Assistant Market Master, Lafayette Market, Thomas Carey, 6 months to June 1	225 00	
Assistant Market Master, Lafayette Market, Henry Wilson Taylor, 6 months to December 1	225 00	
Assistant Market Master, Northeast Market, Michael Lotz, 6 months to June 1	200 00	
Assistant Market Master, Northeast Market, Wm. A. Chapman, 6 months to December 1	200 00	
Assistant Market Master, Canton Market, Daniel W. Cadden, Jr., 6 months to June 1	225 00	
Assistant Market Master, Canton Market, Jacob Seifert, 6 months to December 1	225 00	
Total expenditures		6,400 00

HOSE FOR VARIOUS MARKETS A—VI (53).

Original appropriation	$800 00

EXPENDITURES.

Lafayette	$57 30	
Hollins	58 40	
Centre	92 66	
Lexington	91 50	
Cross	60 90	
Belair	63 40	
Richmond	95 10	
Fell's Point	128 00	
Hanover	31 70	
Total expenditures		678 96
Surplus of credit		$121 04
Balance to surplus, 1903		121 04

MARKET RECEIPTS A—VI (53).

Belair Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$565 00	$2,333 00	$2,898 00	$2,790 00
Perm't and eave stalls	1,830 00	542 00	2,372 00	2,759 00
Movable stalls	135 00	89 00	224 00	251 00
Fish stalls	115 00	112 00	227 00	242 00
Street eaves stalls	535 00	.....	535 00	.....
Street stalls	.....	875 00	875 00	945 00
Per diems, 11 months	.....	.....	3,234 70	3,495 85
	$3,180 00	$3,951 00	$10,365 70	$10,482 85
Sale of stalls	.....	.....	8 00	7 00
	.....	.....	$10,373 70	$10,489 85

The per diem receipts for 1903 are for 11 months.

SAMUEL M. LAIRD, *Asst. Market Master.*

Canton Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$ 25 00	$50 50	$ 75 50	$ 65 00
Perm't and eave stalls	125 00	96 00	221 00	222 00
Fish stalls	10 00	4 00	14 00	28 00
Space stalls	.....	3 00	3 00	14 00
Street stalls	.....	5 00	5 00	5 00
Per diems	.....	145 80	145 80	165 20
	$160 00	$304 30	$464 30	$499 20

The per diem receipts for 1903 are for 11 months.

JACOB SEIFERT, *Asst. Market Master.*

Centre Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$135 00	$443 00	$578 00	$852 00
Perm't and eave stalls	420 00	120 00	540 00	582 00
Movable stalls	125 00	232 00	357 00	197 00
Fish stalls	680 00	191 00	871 00	1,071 00
Street stalls	.....	570 00	570 00	505 00
Office	.....	.....	50 00	45 00
Per diems	.....	.....	1,649 70	1,826 80
	$1,360 00	$1,556 00	$4,615 70	$5,078 80

Per diems for 1903 11 months only.

CHARLES C. SANNER, *Asst. Market Master.*

Cross Street Market, December 31, 1903.

	Licenses.	*Rentss.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$320 00	$481 25	$801 25	$817 00
Perm't and eave stalls	.....	867 50	867 50	882 50
Fish stalls	60 00	60 00	120 00	120 00
Street "	.....	590 00	590 00	575 00
Per diems	.....	.....	1,671 70	2,357 75
	$380 00	$1,998 75	$4,050 45	$4,752 25

The per diems for 1902 are for 11 months.

EDWARD J. STYLES, *Asst. Market Master.*

Fells Point Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$320 00	$1,270 00	$1,590 00	$1,467 50
Perm't and eave stalls	700 00	982 00	1,682 00	1,656 00
Space stalls	660 50	846 50	1,507 00	1,550 00
Movable"	200 00	76 00	276 00	283 00
Fish "	85 00	70 00	155 00	117 00
Street "	.....	520 00	520 00	497 50
Per diem	.....	.....	1,850 95	1,812 50
	$1,965 50	$3,764 50	$7,580 95	$7,383 50
Sale of stalls	.....	.....	14 00	19 00
	.....	.....	$7,594 95	$7,402 50

Per diem for 11 months only.

HENRY TEAGER, *Asst. Market Master.*

Hanover Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902*
Butcher stalls	$185 00	$709 00	$894 00	$1,049 50
Perm't and eave stalls	650 00	318 00	968 00	959 00
Fish stalls	55 00	32 00	87 00	94 00
Street "	.....	500 00	500 00	470 00
Per diems	.....	.....	1,218 95	1,329 80
	$890 00	$1,559 00	$3,667 95	$3,902 30

The per diem collections in 1903 for 11 months only.

ALONZO F. JONES, *Asst. Market Master.*

Hollins Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$205 00	$492 00	$697 00	$697 00
Perm't and eave stalls	.....	410 00	410 00	405 00
Space stalls	.....	245 00	245 00	276 00
Fish stalls	.....	35 00	35 00	32 00
Street stalls	.....	795 00	795 00	795 00
Per diems	.....	.....	1,397 35	1,662 80
Sale of stalls	.....	.....	2 00	7 00
	$205 00	$1,977 00	$3,581 35	$3,856 80

Per diem for 1903 11 months only.

THOMAS J. ROBOSSON, *Asst. Market Master.*

Lafayette Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$235 00	$300 00	$535 00	$499 27
Perm't and eave stalls	720 00	264 00	984 00	984 00
Space stalls	.....	120 00	120 00	120 00
Street stalls	.....	180 00	180 00	165 00
Per diems	.....	.....	1,278 85	1,570 35
	$955 00	$864 00	$3,097 85	$3,338 62

Per diems for 1903, 11 months only.

H. WILSON TAYLOR, *Asst. Market Master.*

Lexington Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$ 545 00	$2,185 00	$2,730 00	$2,680 00
Perm't and eave stalls	2,200 00	1,320 00	3,520 00	3,540 00
Movable stalls	220 00	88 00	308 00	308 00
Fruit and vegetable stalls	255 00	347 00	602 00	622 00
Fish stalls	245 00	98 00	343 00	329 00
Street stalls	.....	3,025 00	3,035 00	3,027 00
Per diems	.....	.....	5,339 50	5,516 70
	$3,465 00	$7,063 00	$15,868 50	$16,022 70

Per diem collections for 1903, 11 months only.

CHARLES W. BROWN, *Asst. Market Master.*

Northeast Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1903.*
Butcher stalls	$100 00	$180 00	$280 00	$272 50
Perm't and eave stalls	195 00	112 00	307 00	330 00
Space stalls	515 00	288 00	803 00	745 00
Fish "	10 00	4 00	14 00	14
Street "	.....	15 00	15 00	15
Per diem	.....	.....	831 98	885 45
	$820 00	$599 00	$2,250 98	$2,261 95
Sale of stalls	.....	.....	300 00	166 00
	.....	.....	$2,550 98	$2,427 95

Per diem receipts for 1903, 11 months only.

WM. A. CHAPMAN, *Asst. Market Master.*

Richmond Market, December 31, 1903.

	Licenses.	*Rents.*	*Total 1903.*	*Total 1902.*
Butcher stalls	$225 00	$474 00	$699 00	$739 00
Perm't and eave stalls	245 00	232 00	477 00	480 00
Aisle stalls	45 00	35 00	80 00	80 00
Movable stalls	90 00	21 00	111 00	115 00
Fish "	100 00	100 00	200 00	200 00
Space "	.....	350 50	350 50	396 00
Street "	.....	245 00	245 00	289 00
Per diems	.....	.....	1,646 90	1,951 65
	$705 00	$1,457 50	$3,809 40	$4,250 65
Sale of stalls	.....	.....	.....	1 00
Old hose sold	.....	.....	1 50	.....
	.....	.....	$3,810 90	$4,251 65

Per diems for 1903 for 11 months only.

JNO. B. ZINK, *Asst. Market Master.*

COMPARATIVE STATEMENT SHOWING RECEIPTS AND EXPENDITURES OF THE DIFFERENT MARKETS A—VI (53).

	1903.		1902.	
	Dr.	*Cr.*	*Dr.*	*Cr.*
Belair Market	$517 79	$10,373 70	$554 43	$10,489 85
Canton "	192 37	464 30	202 40	499 20
Centre "	607 24	4,615 70	636 80	5,078 80
Cross st. "	307 30	4,050 45	313 50	4,752 25
Fell's point"	506 94	7,594 95	509 75	7,402 50
Hanover "	414 18	3,667 95	440 96	3,902 30
Hollins "	311 79	3,581 35	323 85	3,856 80
Lafayette "	247 95	2,097 85	254 00	3,338 62
Lexington "	634 14	15,868 50	675 00	16,022 70
Northeast "	299 65	2,550 98	320 15	2,427 95
Richmond "	374 85	3,810 90	394 20	4,246 65
Gross receipts	$4,414 20	$59,676 63	$4,625 04	$62,017 62
Expenses, cleaning, fuel, etc.	.....	4,414 20	.....	4,625 04
Net receipts	.....	$55,262 43	.....	$57,392 58

PUBLIC HALLS A—VI (53).

Broadway Hall.

	1903.		1902.	
	Dr.	*Cr.*	*Dr.*	*Cr.*
By rent	.....	$376 00	.....	$227 50
To expense, cleaning, etc	$ 87 07	.....	$ 35 00	.....
To net revenue	288 93	.....	192 50	.....
	$376 00	$376 00	$227 50	$227 50

Cross Street Hall.

	1903.		1902.	
	Dr.	*Cr.*	*Dr.*	*Cr.*
By rent	.....	$943 00	.....	$755 25
To expenses, cleaning, etc	$202 40	.....	$159 75	.....
To net revenue	740 60	.....	595 50	.....
	$943 00	.....	$755 25	$755 25

Hollins Hall.

	1903.		1902.	
	Dr.	*Cr.*	*Dr.*	*Cr.*
By rent	.....	$263 00	.....	$106 00
To expenses, cleaning, etc	$ 84 50	.....	$ 25 00	.....
To net revenue	178 50	.....	81 00	.....
	$263 00	$263 00	$106 00	$106 00

A—VI (53).

COMPARATIVE STATEMENT OF PER DIEM RECEIPTS FROM VARIOUS MARKETS.

Markets.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals 1903.	Totals 1902.
Belair ..	$251 00	$227 70	$281 25	$280 40	$318 35	$304 50	$295 90	$325 15	$315 75	$337 35	$297 35	.....	$3,234 70	$3,495 85
Canton .	10 60	9 40	10 00	11 30	14 70	13 50	13 70	16 40	15 20	16 90	14 10	.....	145 80	165 20
Centre .	113 10	112 00	154 80	165 90	175 70	162 50	157 70	160 80	157 60	153 00	136 60	.....	1,649 70	1,826 80
Cross st.	131 50	117 50	142 70	137 60	175 30	153 80	142 20	164 20	167 50	186 00	153 40	.....	1,671 70	2,357 75
Fells Pt.	126 10	108 60	131 60	140 10	150 40	167 80	159 00	178 25	170 50	211 65	179 90	$127 05	1,850 95	1,812 50
Hanov'r	88 50	83 20	103 00	104 80	111 75	117 00	125 55	132 65	119 65	128 15	104 70	.....	1,218 95	1,329 80
Hollins.	121 30	103 80	122 05	137 40	143 05	121 95	135 60	135 60	127 60	133 20	115 80	.....	1,397 35	1,662 80
Lafay'te	102 95	92 45	105 20	111 35	119 45	115 00	122 90	140 25	116 10	138 35	114 85	.....	1,278 85	1,570 35
L'xg't'n	436 25	394 70	454 70	433 95	487 25	546 45	498 40	530 80	516 90	550 60	480 50	.....	5,330 50	5,516 20
Northe't	57 95	51 65	58 35	67 45	80 38	84 20	84 25	98 50	88 15	90 80	70 30	.....	831 98	885 45
Richm'd	145 05	130 25	152 50	155 15	142 65	143 55	148 95	152 50	154 25	175 15	146 90	.....	1,646 90	1,951 65
Totals.	$1,584 30	$1,431 25	$1,716 15	$1,745 40	$1,918 98	$1,930 25	$1,884 15	$2,035 10	$1,949 20	$2,121 15	$1,814 40	$127 05	$20,257 38	$22,574 35

For eleven months ending November 30, 1903.

REPAIRS TO WHARVES A—VI (54).

Original appropriation		$5,000 00
EXPENDITURES.		
Supervision of all wharves	$842 98	
Repairs at Long Dock	73 74	
" Back Basin	278 64	
Foot Charles street	362 76	
Quarantine wharf and sea wall	1,940 44	
City yard wharf	6 00	
Foot Calvert street	1 08	
" Broadway	183 06	
" Thames street	26 36	
Bowly's wharf and Cable street bulk	30 30	
Foot West Falls avenue	75 46	
Centre Pier	485 71	
Foot Hughes street	5 75	
Total expenditures		4,312 28
Surplus of credit		$687 72
Balance carried forward to 1904		687 72

DREDGING HARBOR A—VI (54).

Original appropriation			$49,382 00
EXPENDITURES.			
Advertising		$ 33 55	
Map cabinet		220 00	
Dredging		41,799 70	
Supervision dredging		1,862 97	
Surveys		188 80	
Tug Baltimore:			
Crew	$4,320 00		
Fuel	655 63		
Repairs	183 68		
Steamboat supplies	116 15		
Subsistence	1 45	5,276 91	
Total expenditures			49,381 93
Surplus of credit			$ 07
Balance to surplus, 1903			07

ICEBOATS A—VI (54).

Original appropriation			$14,680 00
Amount received from sundry parties for use of iceboats			290 00
Total credits			$14,970 00
EXPENDITURES.	*Annapolis.*	*Latrobe.*	
Advertising	$ 9 63	$ 9 63	
Crew	2,834 81	6,680 58	
Fuel	386 11	768 74	
Repairs	573 08	1,471 58	
Steamboat supplies	172 78	943 60	
Subsistence	266 95	291 29	
Wharfage	250 00	.....	
Search light	63 72	247 50	
Total expenditures	$4,557 08	10,412 92	14,970 00

REMOVAL OF ASHES A—VI (54).

Original appropriation		$900 00
EXPENDITURES.		
Supervision	$600 00	
Supplies	23 39	
Work on scow	33 63	
Discharging scow	24 00	
Total expenditures		681 02
Surplus of credit		$218 98
Balance to surplus, 1903		218 98

REMOVAL OF FLOATING MATTER A—VI (54).

Original appropriation		$1,350 00
EXPENDITURES.		
Wages	$1,309 25	
Outfit	12 91	
Total expenditures		1,322 16
Surplus of credit		$27 84
Balance to surplus, 1903		27 84

BUILDING SHED ON BOWLY'S WHARF A—VI (54).

Original appropriation		$2,034 00
EXPENDITURES.		
Crosby & Redden, builders	$1,279 15	
J. K. E. Diffenderfer, blue prints	2 16	
E. Raine, advertising	23 25	
A. S. Abell & Co., advertising	29 75	
Albert Johnson, whitewashing	105 00	
Total expenditures		1,439 31
Surplus of credit		$594 69
Balance to surplus, 1903		594 69

REVENUE.

Sale of old junk	$6 00
Balance carried forward to 1904	6 00

	1st Dist.	2d Dist.	3d Dist.	4th Dist.	5th Dist.	Total.
January	$ 52 42	$242 20	$960 79	$570 15	$1,418 74	$3,244 30
February	83 85	206 96	461 36	542 90	1,220 01	2,515 08
March	102 70	300 13	346 99	617 65	1,427 90	2,795 37
April	206 08	319 62	515 12	543 15	1,539 15	3,123 12
May	70 70	345 78	778 91	501 40	1,609 97	3,306 76
June	110 50	343 96	1,339 71	475 72	1,917 53	4,187 42
July	93 89	573 10	484 15	528 39	1,752 22	3,431 75
August	113 06	561 29	3,331 54	562 33	1,877 94	6,446 16
September	80 05	484 43	1,447 69	883 77	1,924 22	4,820 16
October	91 88	373 65	1,058 96	606 00	2,177 46	4,307 95
November	98 31	258 09	848 56	561 65	1,478 90	3,245 51
December	107 05	235 91	694 49	560 40	1,226 08	2,823 93
1903	$1,210 49	$4,245 12	$12,268 27	$6,953 51	$19,570 12	$44,247 51
1902	$836 96	$4,448 75	$8,983 62	$7,146 74	$15,514 59	$36,930 66

Gross receipts, 1903 ..... $44,247.51.

EXPENDITURES.

Amount paid Harbor Masters	$8,849 48	
Rents of offices	263 00	
Telephone	48 00	
Towels	9 00	
Boat supplies	36 96	
Scales at Long Dock	159 96	
Repairs to buoys	11 37	
Special printing	3 00	
Oil stove	5 50	
Total		9,386 27
Net receipts, 1903		$34,861 24
Net receipts, 1902		28,697 25
Increase over 1902		$6,163 99

HARBOR MASTERS, John R. Bailey, *Chief*.

ASSISTANTS.

Lewis Ehrman ..... 1st District.
Edward Biddleman ..... 2d "
Benjamin F. Heaps ..... 3d "
Alexander Lauf ..... 4th District.
John A. Janetzke ..... 5th "

ICEBOAT "ANNAPOLIS" STATE APPROPRIATION A—VI (54).

Original appropriation		$5,000 00
Amount brought forward from 1903		274 05
Total credits		$5,274 05

EXPENDITURES.

Crew	$1,948 00	
Repairs	2,984 22	
Steamboat supplies	341 83	
Total expenditures		5,274 05

REPAIRS TO WHARVES (SPECIAL).

Amount brought forward to 1902		$1,152 44

EXPENDITURES.

Repairs Long dock	$ 21 67	
Foot Caroline street	6 03	
Back Basin	1,124 74	
Total expenditures		1,152 44

ELECTRICAL COMMISSION A—VI (55).

Original appropriation, salaries, (Conduit 1928 Loan)	$16,170 00

EXPENDITURES.

Salaries to December 1, 1903:

Chief Engineer, Charles E. Phelps, Jr.	$2,000 04	
Asst. " Charles G. Edwards	1,250 04	
Chief Cable Inspector, Wm. A. Young	.....	
Horse and driver	.....	
Labor	.....	
Superintendent of Construction, E. V. Donelson	2,160 00	
General Foreman, M. P. Moisan	1,500 00	
Paymaster, W. S. Rice	1,200 00	
Stenographer, Carl H. Otte	900 00	
Bookkeeper, George C. Addison	900 00	
Clerk, W. A. Seltzer	720 00	
Assistant Paymaster, N. E. Miller	855 00	
Second Assistant Engineer, R. C. Thomas	1,400 00	
Chief Draftsman, W. A. Megraw	1,133 32	
Linesman, Wm. King	374 99	
Draftsman, J. F. Dammann, Jr.	230 08	
" C. K. Allen	266 64	
Rodman, A. J. Droescher	276 00	
Inspector, Charles E. Sommers	720 00	
Total expenditures		15,886 11
Surplus of credit		$283 89
Balance to Conduit 1928 Loan		283 89

Original appropriation, expenses, (Conduit 1928 Loan)		$189,000 00
Received for special construction and sale old material		692 35
Total credits		$189,692 35

EXPENDITURES.

Asphalt, oil and burlaps	$ 301 57	
" repaving	1,210 91	
Car tickets	300 00	
Brick	1,454 30	
Castings	4,274 02	
Cement	3,128 33	
Coal	28 75	
Conduit	1,490 22	
Hauling	445 01	
Insurance	134 20	
Labor	37,064 22	
Lumber	570 38	
Material, tools and repairs	2,276 15	
Office expenses, stamps, postage, etc	102 25	
Rentals	113 00	
Sand	1,127 31	
Stationery, drawing and typewriting material	315 38	
Stone	2,922 30	
Total expenditures		57,258 30
Surplus of credit		$132,434 05
Balance to conduit 1928 Loan		132,434 05

Original appropriation, expenses (Conduit 1922 Loan)		$10,130 22
Received for special construction and sale old material		188 77
Total credits		$10,318 99

EXPENDITURES.

Asphalt, oil and burlaps	$ 4 26	
Car tickets	50 00	
Brick	293 40	
Castings	135 90	
Cement	403 56	
Hauling	54 29	
Labor	8,218 40	
Lumber	379 74	
Material, tools and repairs	324 20	
Rentals	26 57	
Sand	30 40	
Stationery	28 92	
Stone	369 35	
Total expenditures		10,318 99

RENTAL OF SUBWAYS A—VI (55).

RECEIPTS.

Maryland Telephone and Telegraph Co	$14,664 08	
Postal Telegraph and Cable Co	1,117 18	
Chesapeake and Potomac Telegraph Co	2,522 62	
John E. Hurst	255 57	
Crown Cork and Seal Co	80 00	
Western Union Telegraph Co	1,096 43	
United Electric Light and Power Co	14,340 31	$34,076 19
Balance paid into the city treasury		$34,076 19

OPERATING AND MAINTENANCE OF CONDUITS COMPLETED A—VI (55).

Original appropriation		$7,486 00
EXPENDITURES.		
Chief Engineer, Charles E. Phelps, Jr.	$1,999 92	
Asst. " Charles G. Edwards	1,249 92	
Chief Cable Inspector, Wm. A. Young	1,380 00	
Horse and driver	425 00	
Labor	2,366 44	
Total expenditures		7,421 28
Surplus of credit		$64 72
Balance to surplus, 1903		64 72

ELECTRICAL COMMISSION A—VI (55).

Amount brought forward from 1902 (Insurance)		$1,742 90
EXPENDITURES.		
Casualty insurance		1,742 90

CONTINGENT FUND, ELECTRICAL COMMISSION.

Amount brought forward from 1902 (Conduit 1922 Loan)		$19,231 05
Received from Women's College for special construction		4,958 10
" " Consolidated Gas Co., suit compromised		10,000 00
" " sale old material and special construction		332 93
Total credits		$34,522 08
EXPENDITURES.		
Advertising	$ 71 21	
Asphalt, oil and burlaps	298 87	
Asphalt repaving	209 63	
Car tickets	150 00	
Brick	366 30	
Castings	2,343 11	
Cement	974 75	
Coal	8 00	
Conduit	2,272 51	
Hauling	135 37	
Labor	23,279 38	
Lumber	338 67	
Material, tools and repairs	1,905 59	
Office expenses, stamps, postage, etc	79 95	
Rental	84 69	
Stationery, drawing and typewriter material	810 01	
Stone	936 83	
Sand	257 21	
Total expenditures		34,522 08

TURNPIKE DIVIDENDS A—VI (56).

Amount brought forward from 1902		$120 60
Received from Baltimore and Fredericktown Road Co		27 40
" " Baltimore and Reisterstown Turnpike Co		86 90
Total		$234 90
Balance carried forward to 1904		234 90

SCHOOLS—OFFICE A—VI (61).

Original appropriation, salaries $10,600 00

EXPENDITURES.

Secretary, H. M. Cowles	$2,000 00	
First Assistant Secretary, F. N. Claridge	1,500 00	
Second " " H. C. Buckmaster	1,500 00	
Supervisor, B. B. Owens	2,000 00	
Clerk to Superintendent, C. W. McGill	1,500 00	
Clerk to Supervisor, W. E. Whitcraft	533 36	
Stenographer, Flora M. Pfoutz	516 67	
Extra help	292 25	
Janitor and messenger, Oscar Weems	540 00	
Total expenditures		10,382 28
Surplus of credit		$217 72
Balance to surplus, 1903		217 72

Original appropriation, expenses $1,500 00

EXPENDITURES.

Expressage	$ 21 70	
Postage stamps	200 55	
Cutting grass	28 00	
Washing towels	18 99	
Electric service	247 78	
Stationery	581 56	
Furniture	159 63	
Incidentals	241 79	
Total expenditures		1,500 00

DAY SCHOOLS A—VI (61).

Original appropriation, salaries $1,145,018 00

EXPENDITURES.

Superintendent, J. H. Van Sickle	$4,749 93		
Asst. " H. A. Wise	2,500 00		
" " J. E. McCahan	2,400 00		
Superintendent of Music, Helen M. Place	1,500 00		
Asst. " " H. M. Baker	900 00		
" " " Mary R. Muffley	900 00		
" " " Minnie A. Lanz	225 00		
Help to Superintendent, Geo. M. Gaither	399 96		
36 regular substitutes	9,300 00	$22,874 89	
Baltimore City College:			
President, Francis A. Soper	$2,400 00		
Vice" Charles F. Raddatz	2,200 00		
Professor Powhatan Clarke	2,000 00		
" A. Z. Hartman	2,000 00		
" and secretary, Joseph H. Elliott	2,000 00		
" Stephen F. Norris	2,000 00		
" Alexander Hamilton	2,000 00		
" Gerard E. Morgan	2,000 00		
" Philip H. Frieze	2,000 00		
" Julius G. Miller	2,000 00		
" John F. Arthur	2,000 00		
" B. W. Sweany	1,800 00		
Amounts carried forward	$24,400 00	$22,874 89	$1,145,018 00

Amounts brought forward	$24,400 00	$22,874 89	$1,145,018 00
Teacher, Aristo M. Soho	1,500 00		
" R. H. Wright	1,500 00		
" David E. Weglein	1,500 00		
" Wilbur F. Smith	2,000 00		
" Richard C. Williams	1,200 00		
" Charles M. Smith	500 00		
" Ernest J. Becker	1,200 00		
" P. L. Raye	1,200 00		
" J. B. Crenshaw	400 00		
" Philip L. Robb	800 00		
" Charles C. Plitt	900 00		
" J. D. Rodeffer	448 00		
5 substitutes	940 17		
Fireman	720 00		
Janitors	1,600 00		
Janitresses	1,440 00	42,248 17	
Eastern High School:			
Principal, Wm. F. Wardenburg	$2,400 00		
First Assistant, Laura DeValin	1,008 00		
Assistant, Eliza Nicolai	900 00		
" M. M. Mullin	675 00		
" L. E. Carpenter	900 00		
" Sue M. Lohrfink	900 00		
" Mary C. Basil	900 00		
" R. M. Lewis	900 00		
" T. B. Mahon	900 00		
" Margaret Garrett	900 00		
" A. B. Dietrichs	900 00		
" Mary McLean	900 00		
" R. B. Brooks	900 00		
" Ida Neuman	900 00		
" Charles M. Smith	500 00		
" M. E. Wiener	292 00		
Substitutes	417 37		
Fireman	720 00		
2 janitresses	600 00	16,512 37	
Western High School:			
Principal, Henry S. West	$2,400 00		
First Assistant, L. C. Saumenig	1,008 00		
Assistant, S. S. Williams	900 00		
" H. C. Adams	900 00		
" A. P. Tudor	150 00		
" F. Rutter	900 00		
" R. Davis	900 00		
" I. George	900 00		
" E. Helsby	900 00		
" A. W. Nicholson	900 00		
" A. T. Ditty	900 00		
" M. T. Dallam	900 00		
" A. E. Welty	900 00		
" L. E. Thalwitzer	900 00		
" Lida S. Eckel	900 00		
" Mary E. Hudgins	1,008 00		
" L. W. Reese	900 00		
" E. S. Reinhard	900 00		
" M. E. Wiener	480 00		
" P. A. Hartman	1,008 00		
Amounts carried forward	$18,654 00	$81,635 43	$1,145,018 00

Amounts brought forward	$18,654 00	$81,635 43	$1,145,018 00
Assistant, N. M. O'Connor	900 00		
" E. C. Bass	900 00		
" F. M. Pfontz	516 00		
" Gertrude Hart	300 00		
" M. E. G. Lentz	300 00		
" H. A. Cuendet	300 00		
" Mary R. Rockwood	300 00		
" Lucy E. Murray	300 00		
" A. I. Emmons	300 00		
" Gertrude Hahn	210 00		
" A. B. Hopkins	63 00		
Fireman	720 00		
3 janitresses	1,050 00		
		24,813 00	
Teachers' Training School:			
Director, S. C. Brooks	$1,500 00		
P. R. Miller	1,000 00		
E. Fleming	1,000 00		
E. L. Nunn	690 00		
		4,190 00	
Baltimore Polytechnic Institute:			
Principal, Wm. R. King	$2,400 00		
Vice-Principal, R. Uhrbrock	1,700 00		
Wm. H. Hall	1,500 00		
Samuel M. North	1,500 00		
J. W. Wilson	1,200 00		
Wm. G. Richardson	1,200 00		
Wm. A. Jones	1,200 00		
Samuel P. Platt	1,200 00		
Thomas G. Ford	1,200 00		
George M. Gaither	1,200 00		
O. Bacharach	1,200 00		
J. E. Broadbelt	1,000 00		
J. H. Bramble	1,000 00		
J. M. Gambrill	333 00		
W. D. Seipp	333 00		
I. L. Twilley	333 00		
W. L. DeBaupre	200 00		
G. P. Von Eiff	200 00		
C. E. Conway	400 00		
Fireman	720 00		
Watchman	480 00		
2 janitresses	1,440 00		
Extra pay to teachers	296 00		
		22,235 00	
Drawing Teachers:			
Supervisor, O. F. Keach	$1,200 00		
13 assistants	7,961 00		
		9,161 00	
Sewing Teachers:			
Supervisor, L. V. Davis	$ 800 00		
23 assistants	11,760 00		
		12,560 00	
Physical Culture:			
Supervisor, C. F. E. Schultz	$1,500 00		
7 assistants	4,571 00		
		6,071 00	
Amounts carried forward		$160,665 43	$1,145,018 00

Amounts brought forward		$160,665 43	$1,145,018 00
Colored High and Training School:			
Principal, Jas. H. Waring	$2,400 00		
Vice Principal, J. H. Lockerman	1,500 00		
Assistant, C. R. Jackson	900 00		
" Ralph I. Cook	900 00		
" L. E. Miller	883 00		
" F. L. Barbour	900 00		
" Daniel A. Brooks	900 00		
" Walter H. Jones	800 00		
" Levi V. Moore	800 00		
" M. A. Hawkins	800 00		
" Lucy M. Davis	800 00		
" D. O. W. Holmes	740 00		
" Beulah S. Wilder	660 00		
" M. B. Gregory	640 00		
" T. W. Turner	240 00		
" C. L. Mason	550 00		
" H. H. Wingate	168 00		
" J. R. P. Brock	148 00		
" T. M. Dungee	200 00		
" Lucinda Cook	333 00		
" A. O. H. Williamson	800 00		
10 critic teachers	5,133 00		
		21,195 00	
Schools Nos. 107, 110 and 116:			
16 teachers	$4,616 00		
2 firemen	760 00		
7 janitresses	1,702 00		
		7,078 00	
Manual Training and Cooking Centres:			
7 teachers	$3,933 00		
1 janitor	120 00		
		4,053 00	
Group A:			
Principal, Edwin Hebden	$ 2,000 00		
57 teachers	30,796 00		
3 firemen	1,812 00		
6 janitresses	2,340 00		
		36,948 00	
Group B:			
Principal, Wm. T. Markland, part of year	$ 1,688 00		
" Basil Sollers, part of year	333 00		
65 teachers	34,668 00		
3 firemen	1,560 00		
9 janitresses	1,962 00		
		40,211 00	
Group C:			
Principal, Joseph C. Hands	$ 2,000 00		
77 teachers	39,294 00		
4 firemen	1,722 00		
13 janitresses	2,184 00		
		45,200 00	
Group D:			
Principal, C. Alex. Fairbank	$ 2,000 00		
66 teachers	33,173 00		
1 fireman	720 00		
10 janitresses	1,932 00		
		37,825 00	
Amounts carried forward		$353,175 43	$1,145,018 00

Amounts brought forward		$353,175 43	$1,145,018 00
Group E:			
Principal, Charles J. Koch	$ 2,000 00		
70 teachers	39,830 00		
3 firemen	946 00		
12 janitresses	2,133 00		
		44,909 79	
Group F:			
Principal, Jacob Grape	$ 1,833 33		
68 teachers	36,271 81		
4 firemen	1,518 50		
6 janitresses	1,459 20		
		41,082 84	
Group G:			
Principal, Elisha M. Jackson	$ 2,000 00		
66 teachers	36,986 39		
2 firemen	606 00		
9 janitresses	1,306 20		
		40,898 59	
Group H:			
Principal, Stephen A. Cremen	$ 2,000 00		
60 teachers	32,782 52		
4 firemen	1,386 00		
8 janitresses	1,584 00		
		37,752 52	
Group I:			
Principal, Wm. H. Tolson	$ 2,000 00		
81 teachers	36,312 00		
3 firemen	1,410 00		
7 janitresses	1,396 00		
		41,118 00	
Group J:			
Principal, Fred. W. Miller	$ 2,000 00		
77 teachers	39,049 00		
3 firemen	1,740 00		
6 janitresses	1,472 52		
		44,261 52	
Group K:			
Principal, Jos. S. Whittington	$ 2,000 00		
73 teachers	40,461 56		
4 firemen	1,872 00		
7 janitresses	1,682 00		
		46,015 56	
Group L:			
Principal, John S. Black	$ 1,500 00		
18 teachers	9,023 62		
1 fireman	600 00		
2 janitresses	456 00		
		11,579 62	
Group M:			
Principal, Andrew J. Pritsch	$ 2,000 00		
82 teachers	44,062 00		
5 firemen	2,640 00		
13 janitresses	2,244 00		
		50,946 00	
Amounts carried forward		$711,739 87	$1,145,018 00

Amounts brought forward		$711,739 87	$1,145,018 00
Group N.			
Principal, Judson Hunt	$ 2,000 00		
71 teachers	39,110 44		
2 firemen	1,215 00		
10 janitresses	2,020 80		
		44,346 24	
Group O.			
Principal, Samuel E. Keller	$ 2,000 00		
68 teachers	36,010 35		
4 firemen	1,830 00		
10 janitresses	1,659 60		
		41,499 95	
Group P:			
Principal, Rozell Berryman	$ 2,000 00		
50 teachers	28,429 99		
3 firemen	1,800 00		
5 janitresses	998 00		
		33,227 99	
Group Q:			
Principal, Henry Zoller, Jr	$ 2,000 00		
70 teachers	38,875 18		
4 firemen	2,280 00		
8 janitresses	1,651 20		
		44,806 38	
Group R:			
Principal, Geo. W. Ebaugh	$ 2,000 00		
63 teachers	33,328 61		
3 firemen	1,660 00		
9 janitresses	1,876 00		
		38,864 61	
Group S:			
Principal, C. A. A. J. Miller	$ 2,000 00		
54 teachers	27,468 58		
3 firemen	1,080 00		
5 janitresses	975 00		
		31,523 58	
Group T:			
Principal, Chas. M. Elliott	$ 2,000 00		
48 teachers	29,758 85		
3 firemen	1,520 00		
7 janitresses	1,260 00		
		34,538 85	
Group U:			
Principal, Robert M. Elliott	$ 2,000 00		
62 teachers	35,911 76		
4 firemen	1,320 00		
8 janitresses	1,835 20		
		41,066 96	
Group V:			
Principal, Wm. E. F. Taylor	$ 2,000 00		
86 teachers	38,171 54		
3 firemen	1,340 00		
9 janitresses	1,818 00		
		43,329 54	
Amounts carried forward		$1,064,883 54	$1,145,018 00

Amounts brought forward		$1,064,883 54	$1,145,018 00
Group W:			
Principal, Thos. C. Bruff	$ 1,933 40		
53 teachers	26,279 57		
3 firemen	1,224 00		
4 janitresses	590 00		
		30,026 97	
Group X:			
Principal, Basil Sollers, part of year	$ 1,667 66		
50 teachers	22,359 00		
3 firemen	1,560 00		
5 janitresses	1,284 00		
		26,870 66	
Attendance Officers:			
12 officers	9,000 00		
		9,000 00	
149 occasional substitutes		14,234 67	
Total expenditures			1,145,015 84
Surplus of credit			$2 16
Balance to surplus, 1903			2 16

DAY SCHOOLS A—VI (61).

Original Appropriation, expenses $127,437 50

EXPENDITURES.

Rents	$12,175 04	
Stationery	24,512 93	
Heating apparatus	1,151 61	
Furniture	2,346 33	
Fuel	59,220 32	
Repairs	4,089 39	
Lighting, advertising, janitor supplies, hauling, weighing coal, expenses commencements, postage stamps and incidentals	23,936 51	
Total expenditures		127,432 13
Surplus of credit		$5 37
Balance to surplus, 1903		5 37

NIGHT SCHOOLS A—VI (61).

Original appropriation, salaries $8,524 00

EXPENDITURES.

81 teachers	$7,990 50	
9 firemen	215 50	
12 janitresses	292 75	
Total expenditures		8,498 75
Surplus of credit		$25 25
Balance to surplus, 1903		25 25

Original appropriation, expenses		$500 00
EXPENDITURES.		
Lamps	$ 11 30	
Oil	11 50	
Gas	258 60	
Supplies	168 89	
Lumber	24 24	
Repairs	18 95	
Paint	4 20	
Total expenditures		497 68
Surplus to credit		$2 32
Balance to surplus, 1903		2 32

FURNISHING NEW BUILDINGS.

Original appropriation		$38,500 00
EXPENDITURES.		
Pupils' desks	$13,760 39	
Other furniture	4,016 43	
Labor setting desks, etc	3,694 46	
Slate boards	3,008 66	
Sundry supplies	1,011 74	
Shades	461 40	
Altering desks	377 59	
Gas ranges	218 23	
Furnace	130 00	
Hose	101 00	
Hauling	120 03	
Total expenditures		26,899 93
Surplus of credit		$11,600 07
Balance carried forward to 1904		11,600 07

PURCHASE 124-126 N. HIGH STREET A—VI (61).

Original appropriation		$5,000 00
EXPENDITURES.		
Paid Daniel C. Heddinger of D. and Annie Heddinger for property 124-126 N. High street		5,000 00

PURCHASE LOT CHARLES AND OSTEND STREETS.

Original appropriation	$2,000 00
Balance carried forward to 1904	2,000 00

BUILDING SCHOOL CHESTNUT AND 4TH AVENUES A—VI (61).

Original appropriation		$ 6,769 42
Balance brought forward from 1902		16,824 96
Total credits		$23,594 38
EXPENDITURES.		
J. Stack & Son, builders	$17,171 00	
Crook, Horner & Co., heating	3,575 42	
P. Flanigan & Co., drain	157 50	
B. T. Fendall, paving	93 39	
Carlton Shafer, water supply	34 50	
C. F. Miller, carpenter	421 57	
S. Keighly, M. C. M'fg. Co., metal ceiling	1,734 85	
C. W. Grant, painter	406 15	
Total expenditures		$23,594 38

BUILDING ADDITION TO SCHOOL 54 A—VI (61).

Original appropriation		$ 861 75
Balance brought forward from 1902		10,000 00
Total credits		$10,861 75
EXPENDITURES.		
J. T. Buckly, builder	$8,242 87	
S. B. Sexton, heating	832 38	
G. W. Walther & Co., plumbing	252 21	
J. J. Walsh, carpenter	1,079 02	
W. Ferguson	455 27	
Total expenditures		$10,861 75

BUILDING SCHOOL No. 83 A—VI (61).

Original appropriation		$28,063 80
Balance brought forward from 1902		5,684 43
Total credits		$33,748 23
EXPENDITURES.		
C. Sheehan & Son, builders	$27,874 83	
Crook, Horner & Co., heating	5,873 40	
Total expenditures		33,748 23

BUILDING SCHOOL No. 84 A—VI (61).

Original appropriation		$28,957 00
Balance brought forward from 1902		15,292 17
Total credits		44,249 17
EXPENDITURES.		
F. H. Sloan, survey	$ 12 00	
Brady & Watten, builders	37,937 17	
Crook, Horner & Co., heating	6,300 00	
Total expenditures		$44,249 17

BUILDING SCHOOL No. 69 A—VI (61).

Original appropriation		$19,872 09
Balance brought forward from 1902		18,197 88
Total credits		38,069 97

EXPENDITURES.

John Hughes, Jr., builder	$32,267 33	
Crook, Horner & Co., heating	5,576 00	
F. F. Graham, stone	21 75	
G. W. Walther & Co., plumbing	33 25	
M. C. Davis, carpenter	156 64	
J. W. High & Son, coal	15 00	
Total expenditures		$38,069 97

BUILDING SCHOOL No. 74 A—VI (61).

Original appropriation		$26,029 00
Balance brought forward from 1902		8,727 64
Total credits		34,756 64

EXPENDITURES.

John Hughes, Jr., builder	$28,202 73	
Crook, Horner & Co., heating	5,576 00	
P. Flanigan & Co., drain	210 00	
E. G. Smyser Sons, iron work	283 00	
M. C. Davis, carpenter	157 06	
G. W. Walther & Co., plumbing	312 85	
J. W. High & Son, coal	15 00	
Total expenditures		$34,756 64

BUILDING SCHOOL SARATOGA AND MOUNT STREETS A—VI (61).

Original appropriation		$50,000 00

EXPENDITURES.

J. K. E. Diffenderffer, blue print	$ 43 35	
A. S. Abell Co., advertising	26 35	
Herald, advertising	25 58	
C. C. Fulton, advertising	25 58	
C. J. Stockhausen, builder	45,069 59	
B. T. Fendall, paving	30 90	
Total expenditures		45,221 35
Surplus of credit		4,778 65
Balance carried forward to 1904		4,778 65

LOT AND BUILDING SCHOOL No. 10 A—VI (61).

Original Appropriation	$45,000 00

EXPENDITURES.

Ed. D. Preston, builder	$ 725 49	
C. J. Stewart & Co., hardware	19 99	
T. Bresnan, excavator	291 09	
Alex. Davis, brick work	204 50	
J. T. Flarett & Co., sand	41 40	
G. Helfrich & Co., lumber	44 05	
F. J. Lublehusen, plumbing	10 31	
J. H. Peddicord, stone	127 88	
F. Elenbrock, cement	162 10	
H. M. Dennison, lot	1,236 18	
Recording	2 50	
Lot	1,255 30	
Recording	2 50	
J. K. E. Diffenderfer, blue prints	7 66	
Total expenditures		$4,130 95
Surplus of credit		$40,869 05
Balance carried forward to 1904		40,869 05

SALARIES GROUP "H" (SPECIAL) A—VI (61).

Transferred from Contingent Fund	$ 4,323 61

EXPENDITURES.

Principal, Andrew J. Pietsch	$ 166 67	
81 teachers	3,774 09	
4 firemen	195 00	
13 janitresses	187 85	
Total expenditures	$4,323 61	
Less amount advanced	85 00	
		4,238 61
Surplus of credit		85 00
Balance to surplus, 1903		85 00

REVENUE.

Received from State of Maryland for Free School Fund	$281,937 63
" for tuition fees non-resident pupils, sale old material, etc.	4,810 41
	$286,748 04
Less:	
Fine returned paid in error to city instead of State	9 00
	$286,739 04

NET RECEIPTS.

Balance paid into the City Treasury	286,739 04

FREE TEXT BOOKS.

Balance brought forward from 1902	$ 1,579 34
Received from State of Maryland for Free Book Fund	53,605 36
Total credits	55,184 70

EXPENDITURES.

Amounts paid to various contractors for Text Books for use in the Public Schools of the city during the year 1903	55,150 22
Surplus of credits	$34 48
Balance carried forward to 1904	34 48

FURNISHING TWO NEW BUILDINGS.

Balance brought forward from 1902	$15,106 80

EXPENDITURES.

Pupils' desks	$12,630 06	
Other furniture	1,113 79	
Work, placing desks, etc	737 98	
Pianos	400 00	
School supplies	193 77	
Linoleum	31 20	
Total expenditures		15,106 80

DAY SCHOOLS, EXPENSES, (SPECIAL).

Balance brought forward from 1902	$6,534 08

EXPENDITURES.

Chesapeake Coal Co	$2,440 48	
National Coal Co	632 84	
Wilcox & Zeigler	1,253 05	
W. J. Chapman	867 45	
George Hafer	295 28	
Samuel & McKay	135 36	
Enterprise Coal Co	123 65	
Piedmont Mining Co	90 62	
Benj. H. Read	695 35	
Total expenditures		6,534 08

LOT ADJOINING SCHOOL No. 53, (SPECIAL) A—VI (61).

Balance brought forward from 1902	$10,000 00
Transferred from school buildings and lots	1,713 41
Total credits	$11,713 41

EXPENDITURES.

Chas. E. Sadtler, *et al.*, Trustees, for lot, 100 x 123 feet.	$11,666 66	
Interest	39 95	
Acknowledgments	1 80	
Recording deeds	5 00	
Total expenditures		11,713 41

SCHOOL BUILDINGS AND LOTS, (SPECIAL) A—VI (61).

Balance brought forward from 1902	$2,265 38

EXPENDITURES.

Transferred to lot adjoining School No. 53	1,713 41
Surplus of credit	$551 97
Balance to surplus, 1903	551 97

INTESTATES ESTATES.

Balance brought forward from 1902	$1,519 06
Balance carried forward to 1904	1,519 06

ENOCH PRATT FREE LIBRARY A—VI (62).

Original appropriation	$4,258 00
Expenditure to cover deficiency in trust funds income	4,258 00

PARKS AND SQUARES, OFFICE A—VI (63).

Original appropriation, salaries	$3,024 00

EXPENDITURES.

Salaries to December 1, 1903:		
Secretary-Treasurer, J. V. Kelly	$1,500 00	
Stenographer, Carl K. Mengel	900 00	
Clerk, G. Archer Hays	546 00	
Total expenditures		2,946 00
Surplus of credit		$78 00
Balance to surplue, Park Board, 1903		78 00

Original appropriation, expenses	$1,640 00

EXPENDITURES.

Stamps and postals	$ 72 50	
Stationery and printing	567 16	
Advertising	267 41	
Subscription to papers	16 52	
Directories	12 00	
Typewriter repairs and supplies	50 00	
New typewriters		
Surveying		
Telegrams, freight, etc	24 97	
Sundries	224 67	
Telephones	54 00	
Total expenditures		1,289 23
Surplus of credit		$350 77
Balance to surplus, Park Board, 1903		350 77

PARKS AND SQUARES—SALARIES A—VI (63).

Original appropriation	$188,797 44
Wages returned	267 47
Total credits	$189,064 91

EXPENDITURES.

Superintendent Druid Hill District, W. H. Cassell	$ 1,749 00
" Patterson " Chas. L. Seybold	1,590 00
" Clifton " N. K. Flitton	1,590 00
" Carroll " H. D. Sinclair	1,535 00
" Riverside " J. Fred. Wessler	1,314 42
Keeper Harlem Park	809 26
" Federal Hill Park	742 00
" Collington	574 00
" Johnston	756 00
" Mt. Royal	756 00
" Perkins	756 00
" Eutaw Place Squares	606 00
" Park Place	636 00
" Fulton avenue	571 00
" Wilkens avenue	360 83
" Union Square	581 00
" Franklin Square	636 00
" LaFayette	586 00
" First Division, Broadway	630 00
" Jackson	648 00
" East City Springs	648 00
" Madison Square	648 00
" Mt. Vernon	648 00
" Moale's Point	267 57
" Locust Point	267 60
Square keeper	530 00
Police Sergeant, Druid Hill Park	581 50
Night Sergeant	12,415 73
Day Officers	11,026 05
Gardeners, charge greenhouse	4,249 12
Assistant gardeners	8,209 17
Head animal keeper	726 00
Animal keepers	991 31
Shepherds	1,090 50
Carpenters	4,804 49
Painters	5,016 80
Bricklayers	3,226 09
Blacksmiths	1,277 00
Foremen	4,036 00
Laborers (including squares)	89,707 17
Stable bosses	2,062 00
Teamsters at $11.67 per week	7,668 60
Engineers at $15.00 per week	658 44
Bandmaster	192 00
Musicians	3,000 00
Boys	2,431 64
Toilet keepers	945 17
Carters	3,828 84
Charwomen	174 00
Caretaker at Maryland Building Druid Hill Park	204 05
Total expenditures	$189,047 35
Surplus of credits	$17 56
Balance to surplus, Park Board, 1903	17 56

PARKS AND SQUARES—Expenses A—VI (63).

Original Appropriation		$148,398 79
American Ice Co., refund		5 80
Total credits		$148,404 59
EXPENDITURES.		
Bulbs	$2,995 00	
Building repairs	1,741 10	
Electric lighting excl. Druid Hill Park	9,881 74	
Maintenance lighting plant Druid Hill Park	7,368 15	
Feed, work animals	5,406 86	
Food, show animals	2,987 15	
Fuel	6,876 39	
Gas and oil lighting	7,396 04	
Gardening supplies	6,932 59	
Hardware	456 80	
Horse furniture and stable supplies	261 54	
Horseshoeing	1,066 00	
Insurance	20 00	
Lawn and agricultural machinery	668 15	
Live stock	430 00	
Paints, glass, etc	2,061 19	
Playgrounds	590 23	
Rent of toolhouses	52 34	
Repairs of all kinds	7,491 69	
Rolling stock	531 70	
Supplies, brick, lumber, stone, etc	7,215 79	
Telephones	231 00	
Tools and implements	644 07	
Veterinary services	161 00	
Music Loan repaid	3,150 00	
Greenspring Avenue Loan repaid	6,000 00	
Interest and Sinking Fund Excess, 1902	1,532 39	
Sinking Fund, 1903	17,381 30	
Interest Patterson Park Loan	8,000 00	
Interest Clifton Park Loan	31,237 50	
Emergency Fund	1,047 00	
Total expenditures		141,814 71
Surplus of credits		$6,589 88
Balance to surplus Park Board, 1903		6,589 88

NEW IMPROVEMENTS A—VI (63).

Original appropriation		$9,307 77
EXPENDITURES.		
Mall, Patterson Park	$2,015 08	
Greenhouse, Riverside Park	4,078 36	
General, parks and squares	3,214 33	
Total expenditures		9,307 77

CONTINGENT FUND, PARK BOARD, 1945 LOAN A—VI (63).

Original appropriation		$500 00
EXPENDITURES.		
Fred. W. Story, legal services	$215 75	
Recording deed	25 00	
Acknowledgments	4 20	
Frank V. Moale, expenses of purchase Moale's Point Park	218 25	
Frank L. Sloan, surveying	30 00	
Total expenditures		$493 20
Surplus of credit		$6 80
Balance to 1945 Loan		6 80

PURCHASE LOT FOR PUBLIC SQUARE RIGGS, FREMONT AND ARLINGTON AVENUES.

Original appropriation	$1,000 00
Balance carried forward to 1904	1,000 00

MEMORIAL IN WYMAN'S PARK.

Original appropriation	$500 00
Balance carried forward to 1904	500 00

PARK RECEIPTS—From Sundry Sources A—VI (63)

Rentals, Druid Hill Park	$687 50	
" Patterson "	600 00	
" Clifton "	201 00	
Fish Ponds, Druid Hill Park	500 00	
" " Patterson "	200 00	
Boating Privilege, Druid Hill Park	100 00	
" " Patterson "	40 00	
Swing " Druid Hill "	10 00	2,338 50
Sale of Sheep	$364 00	
" Horses	254 25	
" Wool	75 81	
" Wood	36 00	
" Old Material	303 08	1,033 14
Fines, violations of park rules		110 00
Recovered damages, reckless driving		2 75
Admission fees to Washington Monument, January	$55 20	
" " " " February	38 55	
" " " " March	78 45	
" " " " April	66 15	
" " " " May	44 10	
" " " " June	72 00	
" " " " July	66 30	
" " " " August	76 50	
" " " " September	115 35	
" " " " October	55 80	
" " " " November	54 45	
" " " " December	31 35	754 20
		$4,238 59

CONTINGENT FUND, REFUND PARK BOARD A—VI (63).

Amount advanced from Contingent Fund, 1902, to the Park Board for the payment of expenses of Park Concerts and repairs to Greenspring Avenue Road	$9,150 00
Received from Park Board the amount expended as above and paid into the City Treasury	9,150 00

REPAIRS GREEN SPRING AVENUE ROAD.

Balance brought forward from 1902	$3,513 03
Wages returned	2 25
Total credits	3,515 28

EXPENDITURES.

Labor	$1,571 63	
Rent for stone crusher and engineer	848 82	
Coal	98 75	
Tools and implements	194 21	
Hay	733 00	
Oil	45 54	
Nails	9 25	
Lumber	14 08	
Total expenditures		3,515 28

MAINTENANCE ELECTRIC LIGHT PLANT DRUID HILL PARK.

Balance brought forward from 1902		$293 53
EXPENDITURES.		
Thos. C. Basshor & Co., repairs to machinery	$105 95	
Westinghouse Electric Co., repairs to machinery	142 73	
J. S. Ditch & Bro., hire of carriage	21 00	
W. C. Robinson & Son Co., machine oil	23 85	
Total expenditures		293 53

FREE PUBLIC BATH COMMISSION A—VI (64).

Original appropriation, salaries		$8,849 00
EXPENDITURES.		
Superintendent, Rev. Thos. M. Beadenkopf	$ 499 92	
Public Baths, No. 1.		
Keeper, F. E. Ellis	$676 00	
First Assistant, Jacob Gebhardt	535 60	
Second " Wm. Michaels	535 60	
Third " Chas. Michaels	267 34	
Engineer, Jos. DeFontes	356 50	
" Fredk. Lebon	262 24	
Assistant Engineer, Henry Brown	113 24	
" " Thos. B. Fenarty	23 84	
" " H. Ilgenfritz	172 84	
Woman Attendant, Maggie Reiley	338 00	
" Assistant, Mary Frazier	40 00	
" " Mrs. Grayson	42 00	
" " Mrs. Ennis	37 50	
Laundress, Emma Ennis	338 00	
	3,738 70	
Public Baths, No. 2.		
Keeper, C. Zeller	$676 00	
Clerk, Edwin Casey	563 16	
First Assistant, P. M. Stiegman	535 60	
Engineer, C. Helland	619 84	
Assistant Engineer, H. C. Brown	113 24	
" " T. B. Finarty	23 84	
" " H. Ilgenfritz	172 84	
Woman Attendant, Laura Davis	338 00	
Laundress, Emma Hasfrons	312 00	
	3,354 52	
Outdoor Baths.		
G. W. Butterworth	$154 00	
Andrew Strauss	154 00	
H. E. Snyder	126 00	
A. G. Gessell	68 00	
John Kuester	140 00	
Chas. George	32 50	
James Hamilton	19 00	
Daniel Lyon	137 00	
W. J. Webb	122 00	
	952 50	
Women's Outdoor Baths.		
Keeper, Mrs. Susan Erlich	99 16	
Helper, Wm. Brown	60 00	
Watchman, Geo. F. Akehurst	9 44	168 60
Total expenditures		8,714 24
Surplus of credit		$134 76
Balance to surplus, 1903		134 76

FREE PUBLIC BATH COMMISSION A—VI (64).

Original appropriation, expenses			$7,175 00
EXPENDITURES.			
Public Baths, No. 1.			
Betterments	$135 23		
Electric and gas lights	184 71		
Fuel	792 20		
Soap, starch and salt	684 42		
Repairs	21 27		
Stationery	17 00		
Household wares and hardware	217 52		
Uniforms and rubber goods	23 50		
Dry goods, towels, etc	392 67		
Car tickets	60 00		
Oils	86 81		
Clerical work, postage, incidentals	223 72		
Ice	40 65		
Insurance	20 00		
		$2,899 70	
Public Baths No. 2.			
Betterments	$181 67		
Electric and gas light	163 21		
Fuel	569 05		
Soap, starch and salt	431 36		
Household wares, hardware and printing	123 02		
Car tickets	45 00		
Insurance	20 00		
Photographs	55 00		
Uniforms	25 50		
Oils	47 69		
Ice	20 18		
Clerical work, typewriting, postage, etc	189 83		
		1,871 51	
Men's Out Door Bath.			
Betterments	$1,952 47		
Uniforms	20 00		
Suits, trunks	87 50		
Soap	11 20		
Hardware and household wares	115 38		
Car tickets	20 00		
Extra help, ice, incidentals	88 58		
Rent	105 76	2,400 89	
Total expenditures			7,172 10
Surplus of credit			$2 90
Balance to surplus, 1903			2 90

Original appropriation, expenses			$1,100 00
EXPENDITURES.			
Woman's Outdoor Bath.			
Betterments		$675 18	
Repairs		47 00	
Bathing suits, etc		60 40	
Printing signs, etc		19 45	
Rent		60 00	
Extra help, ice, car fares, etc		22 57	
Total expenditures			884 60
Surplus of credit			$215 40
Balance to surplus, 1903			215 40

FREE PUBLIC BATH COMMISSION A—VI (64).

1903.	RECEIPTS.		
January, cash		$ 259 74	
February "		313 88	
March "		320 37	
April "		425 89	
May "		470 67	
June "		672 30	
July "		597 06	
August "		1,066 33	
September "		702 39	
October "		501 63	
November "		368 82	
December "		282 47	
			$5,981 55

Open all day—Winter—8 A. M. to 8 P. M.
" " Summer—8 A. M. to 9 P. M.
" " Sundays and Holidays—8 A. M. to 12 M.

Fees—Adults—3 cents for soap and towels.
Children—1 cent.
Public laundry for women, 2 cents per hour.

MARYLAND INSTITUTE A—VI (65).

Original appropriation	$9,000 00
EXPENDITURES.	
Maryland Institute, as per contract	9,000 00

VETERAN VOLUNTEER FIREMEN'S ASSOCIATION.

Original appropriation	$1,000 00
EXPENDITURES.	
Veteran Volunteer Firemen's Association	1,000 00

MEXICAN VETERANS' MONUMENT ASSOCIATION A—VI (65).

Original appropriation		$5,000 00
EXPENDITURES.		
Paid L. F. Beeler, Prest. Assn. of Veterans of Mexican War	$2,300 00	
" " " " " " " "	2,700 00	
Total expenditures		5,000 00

STATE TAX ON CITY LOANS A—VI (71).

Original appropriation		$26,000 00
Balance brought forward from 1902		25,974 76
Total credit		$51,974 76
EXPENDITURES.		
State tax paid on city loans during 1903		22,514 41
Surplus of credit		$29,460 35
Balance to surplus, 1903	$ 3,585 59	
Balance carried forward to 1904	25,974 76	29,460 35
RECEIPTS.		
Amount paid to City Register by owners of city stock for State Tax on city loans		$886 72

INTEREST ON DAILY BALANCES A—VI (81).

National Mechanics Bank, rate of interest, 2 per cent..	$3,665 68	
National Exchange Bank " " 2 " ..	3,034 64	
Merchants National Bank " " 2 " ..	3,488 43	
Farmere & Merchants Nat. Bank, rate of int. 2 per cent.	3,307 30	
Citizens National Bank, rate of interest, 2 per cent...	3,454 58	
First National Bank " " 2½ " ...	4,458 23	
National Marine Bank " " 2½ " ...	4,600 63	
Third National Bank " " 2½ " ...	4,522 80	
Drovers & Mechanics Nat. Bank, rate of int. 2½ per cent.	4,779 28	
National Bank of Commerce, rate of int. 2½ per cent..	4,780 77	
Total cash available		$40,092 34

INTEREST ON PAVING CERTIFICATES A—VI (82).

Original appropriation $1,401 96

EXPENDITURES.

Chas. A. Hook, interest on paving certificate for paving Clifton avenue, 8th to 9th street	$50 46	
Md. Pavement Co., interest on paving certificate for paving Grant street	13 00	
Total expenditures		63 46
Surplus of credit		1,338 50
Balance carried forward to 1904		1,338 50

INTEREST ON STOCK DEBT A—VI (83).

Original appropriation $1,510,468 00

EXPENDITURES.

Western Md. R. R.	1925	4 per cent	$27,360 00
" "	1927	3½ "	55,380 00
" "	1950	3½ "	30,625 00
" "	1952	3½ "	35,000 00
Water	1916	5 "	250,000 00
"	1922	4 "	20,000 00
"	1926	4 "	40,000 00
Patterson Park	1920	4 "	8,000 00
Harford Run	1904	4 "	14,000 00
" "	1920	4 "	10,000 90
Funding	1916	5 "	50,432 75
"	1936	3½ "	50,432 75
Refunding	1940	3½ "	150,500 00
Public Improvem't	1940	3½ "	210,000 00
Int. "	1928	3½ "	169,750 00
Consolidated	1930	3½ "	175,000 00
Conduit	1922	3½ "	34,300 00
Four Million	1945	3½ "	136,237 50
McDonough	1916	5 "	14,000 00
Paving	1920	4 "	20,000 00
Total expenditures			1,501,018 00
Surplus of credit			$9,450 00
Balance to surplus, 1903			9,450 00

REVENUE A—VI (81-91-92.)

Taxes Collected from January 1, 1903, to December 31, 1903.

	Basis.	Rate.	Tax.	Discount.	Net Tax.	Interest.	Total.
1899.							
Personal	$578,873	$1 98	$11,461 63	.....	$11,461 63	$1,947 52	$13,409 15
Securities	2,100	30	6 30	.....	6 30	1 30	7 60
1900.							
Real	583,503	1 67	9,744 50	.....	9,744 50	2,175 88	11,920 38
Personal	295,090	1 67	4,927 97	.....	4,927 97	887 11	5,815 08
Securities	105,346	30	316 04	.....	316 04	57 33	373 37
1901.							
Real	13,713,418	1 81¾	248,898 50	.....	248,899 50	29,042 86	277,941 26
Personal	1,929,422	1 81¾	35,018 95	.....	35,018 95	4,542 31	39,561 26
Securities	252,476	30	757 45	.....	757 45	89 73	847 18
1902.							
Real	25,358,033	1 95	494,481 71	.....	494,481 71	25,801 61	520,283 32
Personal	3,816,874	1 95	74,429 07	.....	74,429 07	3,879 56	78,308 63
Securities	709,399	30	2,128 23	.....	2,128 23	134 88	2,263 11
1903.							
Real	204,013,873	1 86¾	3,809,959 07	61,648 94	3,748,310 13	4,454 49	3,752,764 62
Personal	64,902,181	1 86¾	1,212,048 22	20,842 85	1,191,205 37	1,160 92	1,192,366 29
Securities	83,921,004	30	251,763 01	5,641 23	246,121 78	111 34	246,233 12
	$400,181,592	.....	$6,155,940 65	$88,133 02	$6,067,807 63	$74,286 84	$6,142,094 47
SUBURBAN.							
1899.							
Real	17,743	60	106 45	.....	106 45	24 84	131 29
Personal	18,826	60	112 96	.....	112 96	23 88	136 84
1900.							
Real	1,085,125	60	6,510 73	.....	6,510 73	1,193 70	7,704 43
Personal	52,415	60	314 47	.....	314 47	55 54	370 01
1901.							
Real	1,109,377	60	6,656 23	.....	6,656 23	655 72	7,311 95
1902.							
Real	1,297,836	60	7,787 00	.....	7,787 00	400 99	8,187 99
1903.							
Real	14,906,640	60	89,439 80	834 56	88,605 24	255 90	88,861 14
	$18,487,962	.....	$110,927 64	$834 56	$110,093 08	$2,610 57	$112,703 65
	$418,669,554	.....	$6,266,868 29	$89,967 58	$6,177,900 71	$76,897 41	$6,254,798 12

Real, 1903	$3,748,310 13
Real, arrears	862,790 36
Personal, 1903	1,191,205 37
Personal, arrears	126,265 05
Securities—Tax $249,329.80 and interest $394.58	249,724 38
Interest	76,502 83
	$6,254,798 12
Mortgages	17,752 75
	$6,272,550 87

TAX SALES A—VI (91).

Received from sales of sundry lots sold for taxes	$1,422 50
Paid for advertising and expenses on sundry lots sold for taxes	506 50
Excess of receipts	$916 00
Balance carried forward to 1904	916 00

TAX BAILIFFS A—VI (91).

Original appropriation being 3 per cent. penalty paid on taxes in arrears $42,582 62

EXPENDITURES.

Bailiff, Wallace Bell	$1,284 70	
" A. T. Benzinger	1,522 18	
" P. G. Fields	1,109 98	
" John W. Scott	184 47	
" F. W. Ford	1,284 71	
" J. Wm. Gray	1,522 19	
" L. Griesman	1,522 20	
" F. D. Harrison	1,522 18	
" Wm. R. Johnson	1,522 17	
" T. J. Kelly	1,522 17	
" W. H. Legg	1,522 16	
" T. M. Legg	1,284 69	
" C. Murray	1,522 17	
" W. H. McGinnity	1,522 17	
" M. Mullin	1,284 68	
" J. M. Nolan	1,522 17	
" G. W. Rochester	1,284 69	
" Edward Stowman	1,284 69	
" C. H. Shipley	1,522 19	
" J. J. Snyder	1,522 19	
" Henry Stein	1,522 17	
" C. E. Varina	1,284 70	
" M. H. Doyle	1,284 70	
" James M. Garnett	1,522 18	
" J. C. Galloway	1,522 17	
" Wm. T. Clark	1,284 69	
" Geo. I. Eagleston	1,522 18	
" J. J. Potter	1,522 18	
" F. D. Fenneman	1,522 18	
" W. L. Buck	237 48	
" P. J. Lynch	237 48	
" G. S. Stocksdale	237 48	
" Wm. A. Callahan	237 48	
" Chas. E. Pipino	78 33	
" James M. Huggins	233 09	
" John P. Huber	237 47	
" Geo. W. Dellman	237 49	
" Wm. H. Russell	227 61	
" John J. Fitzsimons	237 49	
" Edward L. Meehan	125 32	
Total expenditures		42,582 62

THOMAS HUGHES, TRUSTEE A—VI (91).

Transferred from Contingent Fund	$118 70
Amount refunded for money paid for property sold for taxes	118 70

REFUND OF TAXES IN ANNEX PAID IN ERROR IN 1900.

Balance brought forward from 1902	$27,918 49

EXPENDITURES.

Refunded to various persons during the year 1903	13,505 54
Balance on hand	$14,412 95
Balance carried forward to 1904	14,412 95

DOG LICENSES AND FINES A—VI (94).

RECEIPTS.

Amount of balance from 1902	$ 4,517 81
Received for licenses and renewals	17,096 50
Received for fines	130 00
Received for dogs redeemed	154 00
Received for sale of old tags	9 18
	$21,907 49

DISBURSEMENTS.

Amount paid Maryland Society for the Prevention of Cruelty to Animals	$8,000 00	
Amount paid for dog licenses and signs	211 20	
Amount released by Maryland Society for the Prevention of Cruelty to Animals	13,696 29	
		21,907 49

LICENSES A—VI (94).

One-horse wagons	17,885 59	
Two-horse wagons	11,481 00	
Three-horse wagons	537 00	
Four-horse wagons	272 00	
Six-horse wagons	217 00	
Carts	3,932 00	
Drays	133 00	
Cabs	195 00	
Hacks	605 00	
Package carts	797 50	
Coal oil	737 75	
Theatricals	2,904 75	
Poles	14,970 00	
Cars	2,740 00	
Scows	468 00	
Billiard tables	1,267 50	
Pool tables	756 09	
Bagatelle	445 00	
Bowling alleys	370 83	
Privies	419 65	
Bacon	979 20	
Sausage	140 00	
Merchandise (women)	62 50	
Fruit	151 00	
Numbers replaced	57 25	
Pawnbrokers	1,000 00	
Peddlers' licenses	618 80	
Dog licenses and fines	17,389 68	
		$81,533 09

GENERAL LICENSES.

Original appropriation		$1,000 00
EXPENDITURES.		
Paid for advertising in sundry papers	85 25	
" 16,935 pair license plates for vehicles	469 00	
" 7,500 single license plates for telegraph poles.		
Total expenditures		554 25
Surplus of credit		445 75
Balance to surplus, 1903		445 75

UNITED RAILWAYS AND ELECTRIC COMPANY A—VI (95).

9 PER CENT. ON GROSS RECEIPTS.

Three months previous to...	1900.	1901.	1902.	1993.
January	$69,150 96	$76,173 88	$80,132 42	$86,604 63
April	65,136 73	68,538 91	73,745 09	77,829 55
July	75,660 41	79,918 21	85,722 50	90,976 13
October	75,462 28	79,527 55	84,797 93	92,215 63
Total receipts for years...	$285,410 38	$304,158 55	$324,397 94	$347,625 94

RECEIPTS FROM FRANCHISES AND MINOR PRIVILEGES A—VI (95).

Franchises.

Chas. W. Greeble, electric sign, Ordinance No. 124, 1903.	$ 10 00	
American Can Co., switches, etc., Ordinance No. 136, 1903.	300 00	
Jacob Epstein, bridge across Garrett street, Ordinance No. 146, 1903	100 00	
United Railways and Electric Co., tracks on Garrison and Belview avenues, Ordinance No. 148, 1903	5 00	
Joyce Manufacturing Co., switch, Ordinance No. 171, 1903.	50 00	
Wilbert Robinson, electric sign, Ordinance No. 5, 1903.	10 00	
Northern Central Railroad Co., sidings and switches, Ordinance No. 30, 1900, per annum	150 00	
Total		$625 00

Minor Privileges.

Drains	$21,315 65	
Additional closets	515 00	
Poles and posts	40 00	
Awnings	642 40	
Areaways	1,288 20	
Showcases	42 20	
Show and bow windows	1,677 29	
Store fronts	261 08	
Use of sidewalks	710 43	
Scales	140 00	
Columns	59 10	
Terraces	54 00	
Signs	7 00	
Amounts carried forward	$26,752 35	$625 00

Amounts brought forward	$26,752 35	$625 00
Electric signs	66 00	
Vaults	654 07	
Cellar doors, etc	32 00	
Storm doors and vestibules	89 75	
Platforms	161 00	
Cable across Light street bridge	72 00	
Cable, Richmond Market	10 00	
Balconies and iron railings	17 00	
Buttresses	5 00	
Steps	10 10	
Superstructures over pavement	25 50	
Manholes	10 00	
Lay tracks	10 00	
Chutes	20 00	
Lunch stands	156 00	
Banners	27 50	
Gasoline tanks	20 00	
Manure pits	14 30	
Watering trough	20 00	
Bins on pavement	5 00	
Marble coping	83 00	
Pipes	55 00	
Clock	5 00	
Total		28,320 57
Grand total		$28,945 57
Refunded		377 18
Net amount		$28,568 39

FRANCHISES, ETC., REFUNDED A—VI (95).

Fred. Bauernschmidt, franchise to lay R. R. switch	$500 00	
J. L. Gilbert & Bro., water rents paid in error	20 20	
H. C. Bowman, minor privileges for drain not used	75 00	
I. N. Cooper, " not used	8 00	
Total amount refunded		$603 20

STATEMENT SHOWING MONTHLY RETURNS OF THE INSPECTORS OF STANDARD WEIGHTS AND MEASURES FOR 1903.

	March.	April.	May.	June.	July.	August.	September.	October.	November.	Totals.
Northwestern	$307 07	$319 55	$543 73	$23 27	$87 17	$28 74	$24 61	$38 20	$19 12	$1,391 46
Southwestern	285 46	302 60	212 00	6 62	33 84	7 29	10 09	24 79	9 09	891 69
Southern	300 00	307 37	293 05	.....	.....	.....	50	8 64	75	910 31
Northeastern	315 71	315 21	173 24	60 75	51 80	52 60	64 76	71 87	47 67	1,153 61
Southeastern	290 24	289 28	320 60	.....	93	.....	16 28	19 76	2 46	939 55
Long and dry	.....	.....	.....	41 16	15 64	42 04	38 34	48 44	24 42	210 04

H. L. P. Woolf, *Chief Inspector.*

*Joseph A. King.....*Northwestern District.*
Chas. H. Kuebler..... " "
*John E. Norton.....*Southwestern* "
Ernest A. Krengle..... " "
*William A. Johnson.....*Southern* "
Robt. W. Harrison..... " "

*Robert V. Brauer.....*Northeastern District.*
Geo. W. Parlett..... " "
*T. Frank Herr.....*Southeastern* "
A. J. Sugar..... " "
*Samuel Morrison.....*Long and Dry.*
Eugene Tuer..... " " "

* Terms expired June 1, 1903.

PERMITS, SHEDS, ETC., A—VI (96).

RECEIPTS.

1903.		
January	$13 78	$179 05
February	52 14	738 98
March	41 61	660 05
April	81 31	640 60
May	54 34	865 60
June	54 41	529 53
July	69 68	513 78
August	57 12	488 85
September	49 13	437 55
October	56 33	653 65
November	66 36	526 90
December	51 26	563 80
	$647 47	$6,798 34
Cost of advertising improvements		647 47
Net revenue		$6,150 87

COMMISSIONERS OF FINANCE.

SCHEDULE A—VI.

1903. January 1, To cash balance						$90,431 11
Interest collected on stocks in the Sinking Funds:						
$47,000	Harford Run	1904	Loan, 1 yr.,	4	per cent.	$1,880 00
11,000	" "	1920	" 1 "	4	"	440 00
700	" "	1920	" 6 mos.	4	"	14 00
5,000	Patterson Park	1920	" 1 yr.,	4	"	200 00
3,000	Paving	1920	" 1 "	4	"	120 00
750,000	Consolidated	1922	" 1 "	3½	"	25,550 00
753,700	Water	1916	" 1 "	5	"	37,685 00
152,400	"	1916	" 6 mos.	5	"	3,810 00
50,800	Funding	1916	" 1 yr.,	5	"	2,540 00
2,900	"	1916	" 6 mos.	5	"	72 50
41,400	W. M. R. R.	1925	" 1 yr.,	4	"	1,656 00
5,000	"	1925	" 6 mos.	5	"	100 00
11,200	Water	1926	" 1 yr.,	4	"	448 00
500	"	1926	" 6 mos.	2	"	30 00
638,400	W. M. R. R.	1927	" 1 yr.,	3¼	"	20,748 00
232,700	"	1927	" 6 mos.	3¼	"	3,781 40
186,100	Internal Imp.	1928	" 1 yr.,	3½	"	6,513 50
7,700	"	1928	" 6 mos.	3½	"	134 75
69,681.37	Consolidated	1930	" 1 yr.,	3½	"	2,438 85
9,700	"	1930	" 6 mos.	3½	"	169 76
2,175,700	Public Imp.	1940	" 1 yr.,	3½	"	76,149 50
8,900	"	1940	" 6 mos.	3½	"	155 75
1,198,500	Refunding	1940	" 1 yr.,	3½	"	41,947 50
67,000	"	1940	" 6 mos.	3½	"	1,172 50
2,172,600	Four Million	1945	" 1 yr.,	3½	"	76,041 00
11,000	" "	1945	" 6 mos.	3½	"	192 50
200,000	W. M. R. R.	1952	" 1 yr.,	3½	"	7,000 00
400	Funding	1936	" 6 mos.	3½	"	7 00
						310,997 51
Sale lots 5 to 12 President street, Ordinance 108, 1902						32,083 33
Interest on purchase price, President street						590 10
Premium on $80,000, 3½ per cent. Consolidated 1928 Loan						7,526 22
" " 35,000, 3½ " Water 1943 "						4,011 50
Park Board, 5 per cent. 1903, Railway Receipts						17,381 30
Amount carried forward						$463,021 07

Amount brought forward		$463,021 07

Interest on Daily Balances:

National Mechanics Bank, 2 per cent	$510 31	
" Exchange " 2 "	664 65	
Merchants' National " 2 "	276 15	
Farmers and Merchants National Bank, 2 per cent	337 79	
Citizens National Bank, 2 per cent	293 48	
First " " 2½ "	420 38	
National Marine " 2½ "	320 00	
Third National " 2½ "	608 72	
National Bank of Commerce, 2½ per cent	140 92	
Drovers and Mechanics National Bank, 2½ per cent	143 57	
		3,715 97

Interest on certificates of deposit covering purchase money of Western Maryland Railroad, excepting $100,000 invested in city stock:

Continental Trust Co., 3½ per cent	$65,909 71	$ 2,306 84	
" " 3½ "	2,172,460 74	76,036 12	
Mercantile Trust Co., 3¼ "	1,979,000 00	64,317 50	
Balto. Trust and Guarantee Co., 3½ pr. ct.	684,000 00	22,230 00	
" " " 3½ "	400,000 00	14,000 00	
International Trust Co., 3¼ per cent	500,000 00	16,250 00	
" " " 3½ "	300,000 00	10,500 00	
Security Trust and Storage Co., 3¼ pr. ct.	60,000 00	1,950 00	
American Bonding and Trust Co., 3¼ pr. ct.	200,000 00	6,500 00	
Third National Bank, 3¼ per cent	500,000 00	16,250 00	
" " 3½ "	350,000 00	12,250 00	
National Bank of Commerce, 3¼ per ct.	340,000 00	11,050 00	
" " 3½ "	350,000 00	12,250 00	
Maryland Trust Co., 3½ per cent., 10 months and 6 days	300,000 00	9,662 52	
Central Trust Co., 3½ per cent	250,000 00	8,750 00	
National Marine Bank, 3½ per cent	200,000 00	7,000 00	
			291,302 98

Rentals and Ground Rents:

Nos. 5, 6, 7 and 8 President street	$ 60 12	
" 9, 10, 11 and 12 " "	467 13	
" 24, 25, 26, 27 and 29 south side of Block street	910 88	
" 5, 6, 7 and 8 north side of Block street	293 60	
Calvert Street Spring lot	1,000 00	
200 feet Pratt street wharf, near Light street	3,600 00	
Old Fish House property	1,457 00	
Fayette and Arch streets	78 00	
Pleasant and Calvert streets	50 00	
Old City Yard property	497 25	
" " " "	480 00	
Battery avenue	157 50	
Charles and Weyler streets	75 70	
Nos. 5, 7 and 9 " street	150 00	
" 11, " "	33 60	
" 13, " "	19 20	
" 15 " "	26 32	
" 17 " "	26 32	
" 19 and 21 " "	52 64	
" 23 " "	52 64	
" 25 " "	25 48	
" 27 " "	26 32	
Amounts carried forward	$9,539 60	$758,040 02

Amounts brought forward	$9,539 60	$758,040 02
Nos. 31 and 33 Weyler street	52 64	
" 35 " "	19 20	
" 37 " "	20 32	
" 43 " "	29 60	
" 45 " "	29 60	
" 49 " "	26 32	
Light and Weyler streets	78 06	
Park avenue near Preston street	686 25	
Northeast market	1,200 00	
Collington square	960 00	
Perkins Spring square	2,052 00	
Riverside park	3,770 62	
Cross Street market	974 00	
City Property Yard	540 00	
Old City Hall, Holliday street	306 00	
Lexington and Paca streets	228 00	
City Hall, Holliday and Fayette streets	56 00	
Baltimore City College, Howard street near Centre	1,000 00	
Colored High School, Pennsylvania ave. near Dolphin st.	1,147 50	
School lot, Chester and Chew streets	829 75	
School No. 30, Hollins and Monroe streets	750 00	
" " 102. Howard and Little Montgomery streets	120 00	
" " 21, Pennsylvania avenue and Robert street	86 00	
" " 67, Frederick road and Fairview avenue	360 00	
" " 110, Waesche street near Fremont avenue	480 00	
" " 77, Castle street	209 25	
" " 4, Hanover and Lee streets	210 00	
" " 29, Sharp and West streets	570 00	
" " 91, Argyle avenue near Lanvale street	120 00	
" " 76, Hull and Clement streets	350 00	
" " 14, Linden avenue and Wilson street	840 00	
" " 92, Charles and Ostend streets	372 50	
" " 94, Ann and Chase streets	501 75	
" " 20, Eden and Preston streets	80 00	
" " 42, Broadway and Bank street	200 00	
" " 11, Gilmor and Mosher streets	757 00	
" " 111, Bond and Chew streets	130 00	
" " 112, Chappel street near Carey	630 00	
" " 34, Carey street and Columbia avenue	385 00	
" " 61, Linden avenue and Konig street	1,155 00	
" " 93, Baltimore street near Aisquith	300 00	
" " 58, East Side Woodberry lane	22 50	
" " 6, Ann and Aliceanna streets	22 50	
" " 78, Harlem avenue and Monroe street	480 00	
" " 47, Eastern avenue and Streeper street	1,001 00	
" " 2, Gough and Stiles streets	50 00	
" " 68, Millington and Lehman avenues	240 00	
" " 107, Biddle street near Pennsylvania avenue	1,500 00	
" " 96, Ramsay and Pulaski streets	480 00	
" " 13, Patterson Park ave. and McElderry st	530 00	
" " 60, Francis street, near Fulton avenue	450 00	
Engine House No. 3, Lombard st., near High st	150 00	
No. 7 Truck, York road, Waverly	75 00	
" 8 " Brunswick street, between Frederick and Wilkens avenues	61 50	
		37,214 56
Maryland Trust Co., certificates of deposit		300,000 00
Amount carried forward		$1,095,254 58

Amount brought forward		$1,095,254 58
General Sinking Funds, receipts from tax levy:		
General Sinking Funds	$74,841 50	
Water 1916 Loan Sinking Fund	62,154 80	
" 1926 " "	31,077 41	
" 1922 " "	15,538 76	
Internal Improvement 1928 Loan Sinking Fund	93,232 39	
Public " 1940 " "	62,154 84	
Four Million 1945 Loan Sinking Fund	15,538 76	
Funding 1936 " " "	31,077 41	
Conduit 1922 " " "	31,077 41	
Refunding 1940 " " "	62,039 08	
Conduit 1928 " " "	26,449 86	
		505,182 22
Surplus (General) 1902		12,511 14

Enoch Pratt Free Library Fund.

Interest on Trust Funds:

$54,300	Water	1916	Loan,	5	per cent.,	1	year	$2,715 00
2,500	Funding	1916	Loan,	5	per cent.,	1	year	125 00
62,300	Paving	1920	"	4	"	1	"	2,492 00
195,000	Patterson Park	1920	Loan,	4	per cent,	1	year	7,800 00
500,000	Water	1922	"	4	"	1	"	20,000 00
2,100	W. M. R. R.	1925	"	4	"	1	"	84 00
900	Harford Run	1920	"	4	"	1	"	36 00
1,000	Water	1926	"	4	"	1	"	40 00
113,200	Consolidated	1930	"	3½	"	1	"	3,962 00
13,200	Int. Imp.	1928	"	3½	"	1	"	462 00
42,700	Pub. Imp.	1940	"	3½	"	1	"	1,494 50
37,800	Four Million	1945	"	3½	"	1	"	1,323 00
145,100	" "	1945	"	3½	"	1	"	5,078 50
4,000	W. M. R. R.	1927	"	3¼	"	1	"	130 00
Deficiency from General Treasury								4,258 00
								50,000 00

Horwitz Benevolent Fund.

Interest on Trust Funds:

$400	Water	1916	Loan	5	per cent.,	1	year	$20 00
100	Funding	1916	"	5	"	1	"	5 00
2,500	"	1916	"	5	"	1	"	125 00
300	W. M. R. R.	1925	"	5	"	1	"	12 00
3,000	Pub. Imp.	1940	"	3½	"	1	"	105 00
6,400	Refunding	1940	"	3½	"	1	"	224 00
1,600	Four-Mil'n	1945	"	3½	"	1	"	56 00
900	W.M.R.R.,	1927	"	3¼	"	1	"	29 26
								576 26

Frederick Raine Fund.

Interest:

$400 Public Improvement 1940 Loan 3½ per cent., 1 year	14 00
	$1,663,538 20

Credit:

Payment of City Hall 1902 Loan							700 00
Interest on W. M. R. R.	4	Per Cent.	1925	Loan			27,360 00
" " "	3¼	"	1927	"			55,380 00
" " "	3½	"	1950	"			30,625 00
" " "	3½	"	1952	"			35,000 00

Purchase of stocks:

$ 1,600	Harford Run	4	Per Cent.	1920	Loan	.....	$ 1,842 84	
50,000	" "	4	"	1904	"	.....	50,750 00	
9,300	Funding	5	"	1916	"	.....	11,473 37	
235,900	W. M. R. R.	3¼	"	1927	"	.....	247,776 65	
4,500	"	4	"	1925	"	.....	5,271 78	
11,200	Consolidated	3½	"	1930	"	.....	12,327 48	
15,000	Funding	3½	"	1936	"	.....	16,946 92	
40,000	Conduit	3½	"	1928	"	.....	44,074 22	
30,000	Water	3½	"	1943	"	.....	33,435 00	
5,000	Pub. Imp.	3½	"	1940	"	.....	5,556 25	
7,900	Intern'l Imp.	3½	"	1928	"	.....	8,669 62	
98,000	Water	5	"	1916	"	.....	119,237 27	
5,000	Funding	3½	"	1936	"	.....	5,648 98	
102,300	Water	5	"	1916	"	.....	126,299 55	
4,500	Funding	5	"	1916	"	.....	5,565 16	
11,200	Four Million	3½	"	1945	"	.....	12,577 67	
10,000	Funding	3½	"	1936	"	.....	11,297 94	
7,500	Water	4	"	1926	"	.....	8,869 76	
36,200	"	5	"	1916	"	.....	44,162 80	
1,100	Funding	5	"	1916	"	.....	1,345 38	
19,200	Water	5	"	1916	"	.....	23,382 97	
25,400	Funding	3½	"	1936	"	.....	28,689 63	
500	Harford Run	4	"	1920	"	.....	567 50	
4,000	Pub. Imp.	3½	"	1940	"	.....	4,470 00	
400	Consolidated	3½	"	1930	"	.....	440 00	
5,400	Pub. Imp.	3½	"	1940	"	.....	6,050 74	
600	W. M. R. R.	4	"	1925	"	.....	707 95	
2,600	Harford Run	4	"	1920	"	.....	2,932 47	
5,000	Water	3½	"	1943	"	.....	5,576 50	
3,000	W. M. R. R.	3½	"	1952	"	.....	3,309 92	
15,000	Harford Run	4	"	1904	"	.....	15,225 00	
6,800	Consolidated	3½	"	1930	"	.....	7,461 03	
10,000	Water	5	"	1916	"	.....	12,206 22	
1,500	"	4	"	1926	"	.....	1,757 95	
20,000	Funding	3½	"	1936	"	.....	22,595 89	
67,000	Refunding	3½	"	1940	"	.....	75,147 57	
10,000	Funding	3½	"	1936	"	.....	11,297 94	
30,000	Conduit	3½	"	1928	"	.....	32,589 00	
10,000	"	3½	"	1928	"	.....	10,863 00	
20,000	Funding	3½	"	1936	"	.....	22,595 89	
15,000	"	3½	"	1936	"	.....	16,946 92	
$957,600								1,077,942 73

Expenses	1,606 50
Fred. Raine Fund (School Board),	7 00
" " (Maryland Institute)	7 00
Enoch Pratt Free Library	50,000 00
	$1,278,628 23
Balance	384,909 97
	$1,663,538 20

STATEMENT OF FOUR MILLION

Accounts.	Authorized Appropriation.	Actual Appropriation.
New Court House	$1,000,000 00	$1,000,000 00
Public parks	$1,000,000 00	$ 894,053 58
Clifton park		$ 722,366 30
Carroll Park		104,221 75
Gwynn's Falls park		15,972 33
Park in South Baltimore		25,000 00
Square in " "		25,000 00
" Riggs, Fremont and Arlington aves.		1,000 00
Contingent Fund, Park Board		493 20
Enlargement water supply	$2,000,000 00	$2,000,000 00
Received from Commissioners of Finance	$3,892,500 00	
Total expenditures to date	3,850,247 66	
Balance on hand	$ 42,252 34	

STATEMENT OF CONDUIT 1922

Account.	Authorized Appropriation.	Actual Appropriation.
Electrical Commission	$1,000,000 00	$1,000,000 00

1945 LOAN TO DECEMBER 31st. 1893.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to Date.	Balance Dr.	Balance Cr.
$1,000,000 00	.....	$1,000,000 00	.....	.....
$ 892,560 38	$ 493 20	$ 893,053 58	.....	$106,946 42
$ 722,366 30	.....	$ 722,366 30	.....	.....
104,221 75	.....	104,221 75	.....	.....
15,972 33	.....	15,972 33	.....	.....
25,000 00	.....	25,000 00	.....	.....
15,000 00	.....	25,000 00	.....	.....
.....	.....	.....	.....	.....
.....	$ 493 20	$ 493 20	.....	.....
$1,930,685 29	$ 26,508 79	$1,957,194 08	.....	$42,805 92

LOAN TO DECEMBER 31st, 1903.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to Date.	Balance Dr.	Balance Cr.
$968,895 83	$31,104 17	$1,000,000 00	.....	.....

STATEMENT OF FIVE MILLION 1928 INTERNAL

Accounts.	Authorized Appropriation.	Actual Appropriation.
Opening of Douglas street	$400,000 00	$373,473 46
Widening Fayette street	$550,000 00	$555,124 59
Widening East Baltimore street	$250,000 00	$168,220 33
*Constructing sewers	$1,750,000 00	$1,745,800 00
Completed to December 31, 1902	.....	$1,723,764 58
Lee street	.....	8,535 42
Canton street	.....	13,500 00
Schoolhouse and lots	$400,000 00	$400,000 00
Repaving streets	$1,000,000 00	$1,000,000 00
Completed to December 31, 1902	.....	$997,582 38
Pine street	.....	2,417 62
Improving Patterson Park	$200,000 00	$200,000 00
Purchasing park Southwest Baltimore, Carroll.	$50,000 00	$50,000 00
Building bridges	$250,000 00	$259,177 96
Completed to December 31, 1902	.....	$259,177 96
Building addition to Court House	$150,000 00	.....
Not Available.	$5,000,000 00	
Court House appropriation $150,000 00		
Returned to Coms. of Finance 94,003 66		
	244,003 66	
Totals	$4,755,996 34	$4,751,796 34
Received from Commissioners of Finance	$4,755,996 34	
Total expenditures to date	4,739,510 74	
Balance on hand	$16,485 60	

IMPROVEMENT LOAN TO DECEMBER 31st, 1903.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to Date.	Balance Dr.	Balance Cr.
$373,473 46	.....	$373,473 46	.....	.....
$555,124 59	.....	$555,124 59	.....	.....
$168,220 33	.....	$168,220 33	.....	.....
$1,735,932 02	.....	$1,735,932 02	.....	$9,867 98
$1,723,764 58	.....	$1,723,764 58	.....	.....
71 16	.....	71 16	.....	$8,464 26
12,096 28	.....	12,096 28	.....	1,403 72
$400,000 00	.....	$400,000 00	.....	.....
$997,582 38	.....	$997,582 38	.....	.....
$997,582 38	.....	$997,582 38	.....	.....
.....	.....	.....	.....	$2,417 62
$200,000 00	.....	$200,000 00	.....	.....
$50,000 00	.....	$50,000 00	.....	.....
$259,177 96	.....	$259,177 96	.....	.....
$259,177 96	.....	$259,177 96	.....	.....
.....	.....	.....	.....	.....
$4,735,425 77	$4,084 97	$4,739,510 74	.....	$12,285 60

*Credit to general accounts.
Constructing sewers..... $4,200 00

STATEMENT OF SIX MILLION 1940 PUBLIC

Accounts.	Authorized Appropriation.	Actual Appropriation.
Court House and Record Building	$1,597,010 03	$1,597,010 03
" Furnishings	152,989 97	152,989 97
Topographical Survey	125,000 00	125,000 00
*School Houses and Lots	400,000 00	399,312 88
Opening Streets	300,000 00	300,000 00
Completed to December 31, 1901	.....	171,599 66
Opening McCullough street	.....	79,405 37
Widening Union Dock	.....	48,994 97
Conduits for underground wires	225,000 00	225,000 00
*Building bridges	600,000 00	587,000 78
Paving streets	1,600,000 00	1,600,000 00
*Constructing sewers	1,000,000 00	991,364 72
Completed to December 31, 1901	.....	947,900 14
Stockholm street	.....	40,000 00
Inlets, Mosher street sewer, Ord. 132, 1898.	.....	800 00
Lee street	.....	1,464 58
Inlets, Mosher street sewer, Ord. 63, 1900	.....	1,200 00
Totals	$6,000,000 00	$5,977,678 38
Received from Commissioners of Finance	$6,000,000 00	.....
Total expenditures to date	5,942,457 19	.....
Balance on hand	$57,542 81	.....

IMPROVEMENT LOAN TO DECEMBER 31st, 1903.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to Date.	Balance Dr.	Balance Cr.
$1,597,010 03	.....	$1,597,010 03	.....	.....
151,993 15	.....	151,993 15	.....	$996 82
125,000 00	.....	125,000 00	.....	.....
399,312 88	.....	399,312 88	.....	.....
297,495 85	.....	297,495 85	.....	2,504 15
171,599 66	.....	171,599 66	.....	.....
77,658 01	.....	77,658 01	.....	1,747 36
48,238 18	.....	48,238 18	.....	756 79
225,000 00	.....	225,000 00	.....	.....
587,000 78	.....	587,000 78	.....	.....
1,600,000 00	.....	1,600,000 00	.....	.....
959,644 50	.....	959,644 50	.....	31,720 22
947,600 14	.....	947,900 14	.....	.....
10,148 30	.....	10,148 30	.....	29,851 70
687 88	.....	687 88	.....	112 12
.....	.....	.....	.....	1,464 58
908 18	.....	908 18	.....	291 82
$5,942,457 19	.....	$5,942,457 19	.....	$35,221 19
		*Credits to General Accounts:		
		School houses and lots.....		687 12
		Building bridges.....		12,999 22
		Constructing sewers.....		8,635 28
				$22,321 62

STATEMENT OF CONDUIT 1928

Account.	Authorized Appropriation.	Actual Appropriation.
Electrical Commission	$1,000,000 00	$1,000,000 00
Received from Commissioners of Finance	80,000 00	
Total expenditures to date	72,452 06	
Balance on hand	$7,547 94	

STATEMENT OF WATER 1943

Accounts.	Authorized Appropriation.	Actual Appropriation.
Lot for and construction, New Reservoir	$350,000 00	$350,000 00
Extension Water Supply, East Jones' Falls	70,000 00	70,000 00
Extension Water Supply, West Gwynn's Falls.	225,000 00	225,000 00
Received from Commissioners of Finance	35,000 00	
Total expenditures to date	34,717 39	
Balance on hand	$282 61	

LOAN TO DECEMBER 31, 1903.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to date.	Balance Cr.	Balance Dr.
.....	$72,452 06	$72,452 06	.....	.....

LOAN TO DECEMBER 31, 1903.

Expended to Dec. 31, 1902.	Expended in 1903.	Total Expenditures to date.	Balance Dr.	Balance Cr.
.....	$ 141 90	$ 141 90	.....	$349,858 10
.....	33,902 40	33,902 40	.....	36,097 60
.....	673 09	673 09	.....	224,326 91

THE

ASSETS AND LIABILITIES

OF THE

CITY OF BALTIMORE, MARYLAND,

DECEMBER 31, 1903.

EXPLANATORY

OF

SCHEDULE "B,"

GIVING THE

TAXABLE BASIS, ASSETS AND LIABILITIES.

Schedule B–I presents the taxable basis, with a consolidated statement of the assets and liabilities.

Schedule B–II gives the assets in items.

Schedule B–III stating the liabilities in same manner.

Schedule B–IV shows the cash, receipts and expenditures monthly, and the balance sheets of December 31, 1902.

Schedule B–V comprises a statement of cash held by Commissioners of Finance for the Sinking Fund.

Schedule B–VI relates to Sinking Fund, Funded Debt, interest and rental charges.

Schedule B–VII gives the amount of taxes in arrears on City Collector's books.

Schedule B–VIII is a statement of minor assets and liabilities.

Schedule B–IX is a list of salaries due December 31, 1903, but payable January 1, 1904.

Schedule B–X comprises a list of 1902 bills by departments paid in 1903.

The balance of B Schedules are tabulated lists of city property as follows:

B–XI. Water Works.

B–XII. Electric Subway.

B–XIII. Wharves.

B–XIV. City Hall, Court House.

B–XV. Public Schools.

B–XVI. Engine Houses.

B–XVII. Parks, Squares.

B–XVIII. Police Stations.

B–XIX. Market Houses.

B–XX. Commissioners of Finance.

SCHEDULE B—I.

Taxable Basis—1903.

Gross basis	$491,921,328 00
Net basis	339,568,333 00

EXPLANATORY.

Assessable at full rate:		
Real	$230,578,345 00	
Personal	36,522,779 00	
Incorporated companies (estimated)	39,000,000 00	
		$306,101,124 00
Assessed at fixed rates:		
Securities (30 cents per $100)	$85,971,333 00	
Suburban property (60 cents per $100)	33,582,204 00	
Income on mortgages (three-fourths of 8%)	266,667 00	
Saving bank deposits 18¾	66,000,000 00	
		185,820,204 00
		$491,921,328 00
$185,820,204 reduced to full rate basis at $2.06, with 81½% collectible, equals	$ 33,467,209 00	
Assessable at full rate	306,101,124 00	
Net basis		$339,568,333 00

SCHEDUDE B—I*a*.

Assets and Liabilities.

December 31, 1903.

Consolidated Statement.

Assets	$47,509,833 72
Liabilities	40,832,666 35
Excess of assets over liabilities	$ 6,677,167 37

SCHEDULE B—II.

Assets.

December 31, 1903.

Quick assets:			
Cash—Register	(Schedule IV*a*)	$373,099 12	
" Finance Commissioners	(" V)	384,909 97	
			$758,009 09
Sinking Funds, face value	(Schedule VI*b*)		17,520,651 82
" " accrued interest to date	(" VI*c*)		137,780 11
" " " rentals	(" VI*d*)		6,295 40
Taxes in arrears	(" VII)		1,059,215 11
Stocks—550 shares Baltimore and Reisterstown Turnpike Co			2,062 50
" 137 " " " Frederick	" "		456 66
Miscellaneous	(Schedule VIII..)		9,441 60
			$19,493,912 29
Fixed assets:			
Public utilities, Water Works	(Schedule XI)..		12,251,987 02
" " Electrical subways	(" XII)..		982,239 89
" " Wharves	(" XIII)..		641,020 67
City property, City Hall, Court House, etc.	(" XIV)..		6,214,806 91
" " Schoolhouses and lots	(" XV)..		3,669,625 05
" " Engine houses and lots	(" XVI)..		616,451 21
" " Parks and squares	(" XVII)..		2,578,526 67
" " Police stations	(" XVIII)..		384,012 26
" " Market houses	(" XIX)..		645,335 08
" " Commissioners of Finance..	(" XX)..		31,916 67
			$47,509,833 72

SCHEDULE B—III.

Liabilities.

December 31, 1903.

Salaries due, but payable January 1, 1904..	(Schedule IX)....		$ 116,311 23
Bills due, payable in 1904	(" X)....		131,253 65
Funded debt	(" VI)....		39,964,482 95
" " accrued interest to date	(" VI*a*)....		593,536 08
Miscellaneous	(" VIII)....		27,082 44
			$40,832,666 35

SCHEDULE B—IV.

Balance Sheet.

December 31, 1903.

	DR.	CR.
City Register, cash on hand	$373,099 12	
Tax sales, property sold unredeemed	8,148 76	
Car tickets for city employees	189 00	
Removing dangerous walls	1,103 84	
Water Board, rents for 1904 collected in 1903		$7,743 48
Improvement Harford Run, balance		3,096 89
Private paving and inspection		2,238 32
Paving certificates		8,572 13
Free text books		34 48
Intestate estates		1,519 06
Unclaimed damages opening streets		117 50
Building Enginehouse No. 22, balance carried forward		1,000 00
Kindergarten supplies, balance carried forward		4,526 23
Infectious Disease Hospital		24,808 59
Park Board, balance carried forward		18,630 27
Refund taxes in Annex paid in error in 1900		14,412 95
State tax on city loans		25,974 76
Paving streets, balances forward		697 10
Opening streets, " "		16,813 21
Conduit 1928 Loan" "		7,547 94
Water 1943 Loan " "		282 61
		$138,015 43
Sundry departments, balances carried forward to pay contracts made in 1903 and liens on city:		
Building Enginehouse No. 24	$15,484 53	
" " " 25	3,779 97	
" school, Saratoga and Mount sts.	4,778 65	
" " No. 10, Hollins street	40,869 05	
Repairs of wharves	687 72	
" sewers	860 41	
Maintenance bridges and culverts	293 42	
Footway crossings	254 21	
Paving in front city property	750 06	
Interest on paving certificates	1,338 50	
Furnishing new school buildings	11,600 07	
Police Commissioners' Pension Fund	6,580 42	
Hospital, Bayview Asylum	10,800 00	
Memorial in Wyman's park	500 00	
New storage warehouse, Water Board	2,786 78	
Barracks at Quarantine	2,144 93	
Purchase lot, Charles and Ostend sts.	2,000 00	
		105,508 72
Sundry credit balances not estimated for, carried forward:		
Removed cases	$1,827 52	
Rents from city property	5,069 55	
Turnpike dividends	234 90	
Supervisors of Elections	6,625 00	
Transportation destitute persons	56 05	
Forfeiture of contract	100 00	
Conscience Fund	103 39	
City seal	10 05	
Superintendent Public Buildings	68 85	
Sale of lot Elm and Mosher streets	393 25	
City Collector	83 86	
Harbor Board	6 00	
		$14,578 42
Cash balance, Four Million Loan		42,252 34
" " Five " "		16,485 60
" " Six " "		57,542 81
		$374,383 32
Mayor and City Council surplus		8,157 40
	$382,540 72	$382,540 72

MAYOR AND CITY COUNCIL.

To estimate of receipts	$10,147,807 84		
Less actual receipts	9,344,440 05		
		$803,367 79	
To sundry accounts forward		105,508 72	
" " receipts "		30,141 71	
" balances paving streets, accounts closed		5,227 48	
" surplus for year 1903		8,157 40	
By appropriation for 1903	$10,146,555 93		
Less actual payments	9,203,109 07		
			$943,446 86
By balances opening streets, accounts closed			4,772 98
" balance appropriation, addition to Jail Hospital			109 50
" " " repairs Female House of Refuge			3 60
" balance appropriation paving Fulton avenue			571 16
" " " " North "			507 78
" " " " Warren "			400 21
" " " " McCulloh "			787 13
" " " school buildings and lots			551 97
" excess of estimated receipts over appropriations			1,251 91
		$952,403 10	$952,403 10

SCHEDULE B—IV*a*.

Harry F. Hooper, Register,

In account with Mayor and City Council of Baltimore.

1903.			
January	1, To balance	$ 644,041 72	
"	31, To cash	354,159 95	
February	28, "	3,025,766 78	
March	31, "	778,786 92	
April	30, "	660,285 88	
May	30, "	675,233 47	
June	30, "	503,985 57	
July	31, "	1,367,255 03	
August	31, "	637,317 20	
September	30, "	215,643 79	
October	31, "	624,436 02	
November	30, "	203,205 92	
December	31, "	551,085 05	
January	31, By cash		$ 898,266 97
February	28, "		714,605 92
March	31, "		685,751 10
April	30, "		690,031 35
May	30, "		1,045,844 45
June	30, "		863,302 84
July	31, "		1,204,371 46
August	31, "		570,271 45
September	30, "		685,334 71
October	31, "		875,514 14
November	30, "		788,227 35
December	31, "		846,582 44
Balance			373,099 12
		$10,241,203 30	$10,241,203 30

SCHEDULE—B—V.

Cash Balance Sheet of Commissioners of Finance.

December 31, 1903.

Sinking Funds.					Dr.	Cr.
General Sinking Fund						$314,978 90
Public Park Sinking Fund						921 93
" " " " No. 2						4,797 76
Redemption of Five Million 1890 Loan						2,003 45
W. M. R. R. Sinking Fund						10,766 57
Public Improvement 1940 Loan Sinking Fund						8,459 31
Internal "	1928	"	"	"		10,343 16
Four Million	1945	"	"	"		1,397 74
Funding	1936	"	"	"		5,825 07
Water	1922	"	"	"		2,583 36
"	1926	"	"	"	$ 987 20	
"	1916	"	"	"		7,563 17
Conduit	1928	"	"	"		1,066 08
Water	1943	"	"	"		3,690 50
Conduit	1922	"	"	"		7,784 74
Refunding	1940	"	"	"		3,108 48
						$385,290 22
Trust Fund.						
Horwitz Benevolent Fund						606 95
Balance					384,909 97	
					$385,897 17	$385,897 17

SCHEDULE B—VI.

Funded Debt.

December 31, 1903.

Name of Loan.	Rate.	When Redeemable.	Amount.
Harford Run	4 per ct.	November 3, 1904	$ 350,000 00
Water	5 "	July 1, 1916	5,000,000 00
Funding	5 "	July 1, 1916	1,000,000 00
McDonogh Ext.	5 "	September 1, 1916	280,000 00
Harford Run	4 "	January 1, 1920	250,000 00
Patterson Park Ext.	4 "	October 1, 1920	200,000 00
Paving	4 "	November 1, 1920	500,000 00
Conduit	3½ "	January 1, 1922	1,000,000 00
Water	4 "	November 1, 1922	500,000 00
W. M. R. R.	4 "	July 1, 1925	684,000 00
Water	4 "	November 1, 1926	1,000,000 00
W. M. R. R.	3¼ "	January 1, 1927	1,704,000 00
Internal Improv't	3½ "	July 1, 1928	4,850,000 00
Conduit	3½ "	January 1, 1928	80,000 00
Consolidated	3½ "	July 1, 1930	5,000,000 00
Funding	3½ "	July 1, 1936	1,453,300 00
Public Improv't	3½ "	January 1, 1940	6,000,000 00
Refunding	3½ "	January 1, 1940	4,300,000 00
Water	3½ "	January 1, 1943	35,000 00
Four Million	3½ "	March 1, 1945	3,892,500 00
W. M. R. R. Rfdg.	3½ "	March 1, 1950	875,000 00
W. M. R. R. Rfdg.	3½ "	January 1, 1952	1,000,000 00
Stock due in 1860	6 "	Unredeemed, no int. allowed.	482 00
Water stock due in 1875.	6 "	Unredeemed, no int. allowed.	270 00
Consolidated stock due in 1890	6 "	Unredeemed, no int. allowed.	627 50
Five Million stock due in 1890	6 "	Unredeemed, no int. allowed.	2,003 45
Water stock due in 1894.	5 "	Unredeemed, no int. allowed.	700 00
Jones' Falls Stock due in 1900	5 "	Unredeemed, no int. allowed.	400 00
W. M. R. R. stock due in 1902	6 "	Unredeemed, no int. allowed.	6,200 00
			$39,964,482 95

Increase of funded debt authorized but not yet issued:

Four Million 3½ Per Cent. 1945 Loan, Ordinance No. 137, 1894	$107,500 00	
Water 3½ Per Cent. 1943 Loan, Ordinance No. 86, 1902	965,000 00	
Conduit 3½ Per Cent. 1928 Loan, Ordinance No. 87, 1902	920,000 00	
		$1,992,500 00

SCHEDULE B—VI*a*.

Accrued Interest on Funded Debt.

December 31, 1903.

6	months.	$1,453,300 00	Funding	1936	Loan	3½	per cent..	$ 25,432 75
6	"	4,300,000 00	Refunding	1940	"	3½	" ..	75,250 00
6	"	6,000,000 00	Public Imp.	1940	"	3½	" ..	105,000 00
6	"	684,000 00	W. M. R. R.	1925	"	4	" ..	13,680 00
6	"	1,000,000 00	W. M. R. R.	1952	"	3½	" ..	17,500 00
6	"	4,850,000 00	Internal Imp.	1928	"	3½	" ..	84,875 00
6	"	350,000 00	Harford Run	1904	"	4	" ..	7,000 00
6	"	250,000 00	" "	1920	"	4	" ..	5,000 00
6	"	5,000,000 00	Consolidated	1930	"	3½	" ..	87,500 00
6	"	1,704,000 00	W. M. R. R.	1927	"	3¼	" ..	27,690 00
3	"	200,000 00	Patterson Pk.	1920	"	4	" ..	2,000 00
6	"	1,000,000 00	Conduit	1922	"	3½	" ..	17,500 00
2	"	5,000,000 00	Water	1916	"	5	" ..	41,666 66
2	"	1,000,000 00	Funding	1916	"	5	" ..	8,333 34
4	"	280,000 00	McDonough	1916	"	5	" ..	4,666 66
2	"	500,000 00	Paving	1920	"	4	" ..	3,333 33
2	"	500,000 00	Water	1922	"	4	" ..	3,333 34
2	"	1,000,000 00	"	1926	"	4	" ..	6,666 67
4	"	3,892,500 00	Four Million	1945	"	3½	" ..	45,412 50
4	"	875,000 00	W. M. R. R.	1950	"	3½	" ..	10,208 33
6	"	5,000 00	Water	1943	"	3½	" ..	87 50
6	"	80,000 00	Conduit	1928	"	3½	" ..	1,400 00
								$593,536 08

SCHEDULE B—VI*b*.

Funds held by Finance Commissioners for Sinking Funds.

December 31, 1903.

Stocks:

Harford Run	1904	Loan,	4 per cent	$112,000 00
" "	1920	"	4 "	15,700 00
Water	1916	"	5 "	935,100 00
"	1926	"	4 "	13,700 00
"	1943	"	3½ "	35,000 00
Funding	1916	"	5 "	54,100 00
"	1936	"	3½ "	120,400 00
Patterson Park	1920	"	4 "	5,000 00
Public Improvement,	1940	"	3½ "	2,190,100 00
Paving	1920	"	4 "	3,000 00
Conduit	1922	"	3½ "	750,000 00
"	1930	"	3½ "	88,081 37
"	1928	"	3½ "	80,000 00
W. M. R. R.	1925	"	4 "	46,500 00
" "	1927	"	3¼ "	874,300 00
" "	1952	"	3½ "	203,000 00
Internal Improvem'nt	1928	"	3½ "	194,000 00
Refunding	1940	"	3½ "	1,265,500 00
Four Million	1945	"	3½ "	2,183,800 00
				$9,169,281 37

Certificates of deposits:

Continental Trust Co.	3½	per cent	$2,238,370 45
Baltimore Trust and Guarantee Co.	3½	"	400,000 00
" " " "	3¼	"	684,000 00
International Trust Co.	3½	"	300,000 00
" " "	3¼	"	500,000 00
Central Trust Co.	3½	"	250,000 00
American Bonding and Trust Co.	3¼	"	200,000 00
National Bank of Commerce	3½	"	350,000 00
" " "	3¼	"	340,000 00
" Marine Bank	3½	"	200,000 00
Third National Bank	3½	"	350,000 00
" " "	3¼	"	500,000 00
Mercantile Trust Co.	3¼	"	1,979,000 00
Security Storage and Trust Co.	3¼	"	60,000 00
			$17,520,651 82

SCHEDULE B—VI *c*.

Accrued Interest on the Funded Debt in the Sinking Funds.

December 31, 1903.

6 months.	$ 112,000 00	Harford Run	1904	Loan,	4	per cent.	$ 2,240 00
6 "	15,700 00	" "	1920	"	4	"	314 00
2 "	935,100 00	Water	1916	"	5	"	7,792 50
2 "	13,700 00	"	1926	"	4	"	91 33
6 "	35,000 00	"	1943	"	3½	"	612 50
2 "	54,100 00	Funding	1916	"	5	"	450 83
6 "	120,400 00	"	1936	"	3½	"	2,107 00
3 "	5,000 00	Patterson Park	1920	"	4	"	50 00
6 "	2,190,100 00	Pub. Imp't	1940	"	3½	"	38,326 75
2 "	3,000 00	Paving	1920	"	4	"	20 00
6 "	750,000 00	Conduit	1922	"	3½	"	13,125 00
6 "	80,000 00	"	1928	"	3½	"	1,400 00
6 "	88,081 37	Consolidated	1930	"	3½	"	1,541 42
6 "	46,500 00	W. M. R. R.	1925	"	4	"	930 00
6 "	874,300 00	"	1927	"	3¼	"	14,207 37
6 "	203,000 00	"	1952	"	3½	"	3,552 50
6 "	194,000 00	Internal Imp't	1928	"	3½	"	3,395 00
6 "	1,265,500 00	Refunding	1940	"	3½	"	22,146 25
4 "	2,183,800 00	Four Million	1945	"	3½	"	25,477 66
							$137,780 11

SCHEDULE B—VI*d.*

Accrued Rentals,

DECEMBER 31, 1903, OF REAL ESTATE AND GROUND RENTS UPON THE BOOKS OF THE COMMISSIONERS OF FINANCE.

Nos. 24, 25, 26, 27 and 29 s. s. Block street	$113 86
" 5, 6, 7 and 8 n. s. " "	73 40
Calvert Street Spring lot	500 00
200 feet Pratt Street wharf, near Light street	300 00
Old Fishhouse property	40 48
Fayette and Arch streets	17 35
Pleasant and Calvert streets	25 00
Old City Yard property	98 10
" " " "	240 00
Battery avenue	34 12
Charles and Weyler streets	44 10
Nos. 5, 7 and 9 Weyler street	37 50
No. 11 Weyler street	25 20
" 13 " "	14 40
" 15 " "	2 19
" 17 " "	2 19
" 19&21 " "	4 38
" 23 " "	2 19
" 25 " "	27 60
" 27 " "	28 51
" 31&33 " "	30 70
" 35 " "	7 00
" 37 " "	15 24
" 39&41 " "	58 89
" 43 " "	17 02
" 45 " "	2 47
" 49 " "	2 19
Light and Weyler streets	6 50

Purchased by authority of Ordinance No. 81, 1881.

Park avenue, near Preston street	163 00
Hollins and Monroe streets	125 00
Howard and Little Montgomery streets	60 00
Pennsylvania avenue and Robert street	7 16
Frederick and Fairview avenues	75 00
Waesche street, near Fremont	40 00
Castle street	52 32
Hanover and Lee streets	43 75
Sharp and West streets	47 50
Argyle avenue, near Lanvale street	10 00
Hull and Clement streets	58 32
Linden avenue and Wilson street	280 00
Charles and Ostend streets	62 08
Ann and Chase streets	83 62
Howard street, opposite Centre	83 33
Preston and Eden streets	6 66
Broadway and Bank street	61 11
Mosher and Gilmor streets	126 16
Northeast market	600 00
Collington square	400 00
Perkins Spring square	342 00
Riverside park	314 22
Holliday and Fayette streets	18 64
Amount carried forward	$4,830 45

Amount brought forward	$4,830 45	
Lexington and Paca streets	76 00	
Bond and Chew "	65 00	
Carey street and Columbia avenue	112 72	
Chappell street, near Carey	157 50	
Ramsay and Smallwood streets	95 97	
Cross Street market	162 34	
Linden avenue and Konig street	192 50	
Baltimore street, near Aisquith	66 67	
Lombard street, near High	75 00	
Rogers avenue and Low street	139 50	
East Side Woodberry lane	11 25	
Ann and Aliceanna streets	5 50	
York road, Waverly	34 25	
Brunswick street, between Frederick and Wilkens aves.	30 75	
Harlem avenue and Monroe street	240 00	
		$6,295 40

SCHEDULE B—VI *d*.

Enoch Pratt Free Library Fund.

Held in Trust by the Commissioners of Finance, Under Ordinance No. 64, of 1888.

Water 5 Per Cent. 1916 Loan	$54,300 00	
Funding 5 Per Cent. 1916 Loan	2,500 00	$ 56,800 00
Paving 4 Per Cent. 1920 Loan	$ 62,300 00	
Patterson Park 4 Per Cent. 1920 Loan	195,000 00	
Water 4 Per Cent. 1922 Loan	500,000 00	
Western Maryland Railroad 4 Per Cent. 1925 Loan.	2,100 00	
Harford Run 4 Per Cent. 1920 Loan	900 00	
Water 4 Per Cent. 1926 Loan	1,000 00	761,300 00
Consolidated 3½ Per Cent. 1930 Loan	$113,200 00	
Internal Improvement 3½ Per Cent. 1928 Loan	13,200 00	
Public Improvement 3½ Per Cent. 1940 Loan	42,700 00	
Four Million 3½ Per Cent. 1945 Loan	37,800 00	
Refunding 3½ Per Cent. 1940 Loan	145,100 00	352,000 00
Western Maryland Railroad 3¼ Per Cent. 1927 Loan		4,000 00
		$1,174,100 00

Horwitz Benevolent Fund.

Held in Trust by the Commissioners of Finance, Under Ordinance No. 7, of 1888.

Water 5 Per Cent. 1916 Loan	$ 400 00	
Funding 5 Per Cent. 1916 Loan	2,600 00	$ 3,000 00
Western Maryland Railroad 4 Per Cent. 1925 Loan.		300 00
Public Improvement 3½ Per Cent. 1940 Loan	3,000 00	
Refunding 3½ Per Cent. 1940 Loan	6,400 00	
Four Million 3½ Per Cent. 1945 Loan	1,600 00	11,000 00
Western Maryland Railroad 3¼ Per Cent. 1927 Loan		900 00
Cash		606 95
		$15,806 95

Frederick Raine Fund.

Held by the Commissioners of Finance, Under Ordinance No. 51, 1897.

Public Improvement 3½ Per Cent. 1940 Loan	$400 00

SCHEDULE B—VII.

City Collector.

TAXES IN ARREARS DECEMBER 31, 1903.

	Basis.	Estimated Basis Collectible.	Rate.	Product.
1901, Real	$4,977,181 00	$1,493,154 00		
1901, Personal	9,885,285 00	494,264 00		
	$14,862,466 00	$1,987,418 00	$1.81½	$36,071 64
1901, Securities	250,190 00	37,528 00	.30	112 58
1901, Suburban	611,769 00	91,750 00	.60	550 50
1902, Real	$18,382,117 00	$16,543,905 00		
1902, Personal	8,774,571 00	1,316,186 00		
	$27,156,688 00	$17,860,091 00	$1.98	353,629 80
1902, Securities	1,303,565 00	651,783 00	.30	1,955 35
1902, Suburban	1,160,681 00	870,510 00	.60	5,223 06
1903, Real	$46,447,986 00	$27,868,791 00		
1903, Personal	16,816,062 00	6,044,818 00		
	$63,264,048 00	$33,913,609 00	$1.86¾	633,336 65
1903, Securities	3,108,749 00	1,036,249 00	.30	3,108 75
1903, Personal	8,408,928 00	4,204,464 00	.60	25,226 78
				$1,059,215 11

SCHEDULE B—VIII.

Miscellaneous Account.

Dr.

Tax sale property unredeemed	$8,148 76
Dangerous walls, money to be refunded	1,103 84
Car tickets on hand	189 00
	$9,441 60

Cr.

Paving certificates	$ 8,572 13
Engine House No. 22, balance	1,000 00
Opening streets	16,813 21
Paving streets	697 10
	$27,082 44

SCHEDULE B—IX.

Salaries due December 31, 1903.

PAYABLE JANUARY 1, 1904.

General	$4,524 94
City Council	2,916 56
" clerks	1,041 61
City Engineer	2,930 20
Appeal Tax Court	1,933 34
Orphans "	832 00
Superior "	535 00
Criminal "	1,000 00
Baltimore City Court	500 00
Court of Common Pleas	958 33
Circuit Court	325 00
" " No. 2	325 00
Library	262 50
Topographical Survey	477 76
Magistrates	1,575 00
Jail	2,654 88
Health	4,819 63
Charities	533 33
Police	38,398 73
Bayview	2,332 82
Superintendent Public Buildings	4,251 68
Water Board	5,843 09
Commissioners Opening Streets	575 00
Liquor License Commissioners	750 00
Electrical Commission	2,203 61
9 Judges, Supreme Bench	1,125 00
Inspector Buildings	2,251 35
Supervisors Election	1,324 97
Superintendent Lamps	291 66
Street Cleaning Department	1,350 06
Harbor Board	1,966 33
Fire Department	19,009 68
Park Board	252 00
Quarantine	940 00
City Collector	2,708 31
Coroners	1,500 00
Police Examiners	300 00
Juvenile Court	175 00
Parks and squares	616 86
	$116,311 23

SCHEDULE B—X.

Sundry Bills Due December 31, 1903.

PAID IN 1904.

Commissioners of Opening Streets	$ 5 00
Superintendent Public Buildings	1,379 30
Electrical Commission	2,597 61
Supervisors of Charities	22,501 78
Liquor License Commission	405 27
Register's Department	375 00
Free Public Bath Commission	284 16
Superintendent Lamps	19,624 64
Superior Court	91 25
Baltimore City Court	146 90
Court of Common Pleas	45 42
Circuit Court No. 2	137 75
City Collector	429 68
Police Department	8 00
Fire Department	9,964 59
Ground Rents on City Property	6,148 00
City Council	118 84
Inspector of Buildings	17,240 81
Health Department	921 00
City Engineer	7,994 36
Board of School Commissioners	14,242 85
Street Cleaning Department	4,249 58
Wharfage	777 10
Bay View	3,669 05
Judgment and Suits	14 05
Park Board	341 00
Water Board	11,325 04
Mayoralty	4 16
Appeal Tax Court	122 19
Criminal Court	5,594 36
Lafayette Market	20 56
Hollins Market and Hall	48 75
Lexington Market	51 00
Richmond Market	30 50
Belair Market	43 50
Cross Street Market and Hall	55 00
Northeast Market	25 60
Canton Market	16 67
Centre Market	53 50
Fells' Point Market and Hall	23 50
Juvenile Court	90 00
Hanover Market	36 33
	$131,253 65

SCHEDULE B—XI.

Water Department.

STATEMENT OF LAND, CONSTRUCTION AND REAL ESTATE DECEMBER 31, 1903.

	Area.			Cost of Land.	Cost of Construction.	Cost of Buildings.
	A.	*R.*	*P.*			
Loch Raven	1,613	0	42.3	$100,218 02	$ 755,825 82	$ 24,472 80
Lake Montebello	153	2	3	175,135 00	961,718 06	12,795 01
Druid Lake	110			100,394 91	1,234,179 01	.....
Lake Roland	265	1	30	109,683 00	264,923 20	4,000 00
Lake Clifton	44	3	32	33,555 00	692,777 63	3,500 00
Hampden Reservoir	20	3	29¾	16,700 00	206,643 53	2,700 00
Jones' Falls Conduit	20	1	4½	32,704 00	536,339 35	.....
Guilford Reservoir	12	3	29	23,276 25	136,444 99	2,950 00
Mt. Royal Reservoir	14	3	22	18,809 63	112,352 72	2,000 00
" Pumping Station	2	0	35	50,000 00	.....	190,891 00
Eastern " "	3	2	37⅕	16,200 00	.....	111,614 54
Western " "	.....	.....	.....	.....	.....	53,577 00
Western High Service Reservoir	.....	.....	.....	.....	112,518 57	.....
West Arlington Standpipe		3	33	2,500 00	30,000 00	9,232 74
Gunpowder Conduit	.....	.....	.....	21,849 25	1,757,760 99	.....
Machine shop	.....	.....	.....	.....	.....	39,794 53
New standpipe	.....	.....	.....	.....	850 62	.....
				$701,025 06	$6,802,334 49	457,527 62
						6,802,334 49
						701,025 06
Total land, construction and real estate						$7,960,887 17
Mains laid, 642 miles 4,813 feet						4,291,099 85
Total						$12,251,987 02

SCHEDULE B—XII.

Electrical Commission.

Summary of Duct Feet Conduit laid in 1903; Trunk Lines, Service and Distribution.

LOCATION.	Trunk Lines.		Service and Distribution		Totals.
	Terra-cotta Duct feet.	Fibre Duct feet.	Terra-cotta Duct feet.	Fibre Duct feet.	
Police and Fire Alarm Department	.....	.....	.....	4,221.30	4,221.30
Water street	.....	.....	126.00	346.00	472.00
German "	5,325.00	1,060.00	.....	572.00	6,957.00
Holliday "	.....	.....	.....	153.40	153.40
Arc light	.....	.....	.....	1,148.00	1,148.00
Gay street	.....	.....	729.00	377.00	1,106.00
Calvert "	77,515.20	9,016.00	1,759.50	415.00	88,705.70
Baltimore street	.....	.....	64.00	77.60	141.60
Centre Market space	21,131.40	1,703 60	.....	.....	22,835.00
Special construction	507.00	97.00	.....	.....	604.00
Lovegrove alley	.....	.....	240.00	74.40	314.40
South street	4,615.00	945.00	.....	34.00	5,594.00
Clay "	.....	.....	1,390.00	278.00	1,668.00
Fayette "	52,047.60	5,159.00	31.50	7.00	57,245.10
Sharp "	5,190.40	702.60	.....	.....	5,893.00
Little Sharp street	9,538.00	1,240.00	.....	.....	10,778.00
McClellan's alley	10,803.00	1,171.00	.....	45.00	12,019.00
Saratoga street	.....	.....	15.00	5.00	20.00
Howard "	.....	.....	54.00	41.00	95.00
Eutaw "	.....	.....	15.00	114.50	129.50
Lexington "	.....	.....	33.00	31.00	64.00
Maryland Tel. & Teleg. Co	.....	.....	.....	56.24	56.24
Bank lane	.....	.....	.....	7.50	7.50
Liberty street	.....	.....	.....	5.00	5.00
Granby street	26,232.00	3,282.00	.....	.....	29,514.00

Central avenue	4,392.00	549.00	.....	.....	4,941.00
Read street	20,036.00	3,825.00	.....	.....	23,861.00
Balderston street	.....	.....	12.00	38.00	50.00
Charles street	.....	.....	252.00	.....	252.00
Chesapeake & Potomac Telephone Company	.....	.....	.....	770.00	770.00
United Railways & Electric Company	.....	.....	.....	6.00	6.00
United Electric Light & Power Company	.....	.....	144.00	5.00	149.00
Pratt street	67,842.00	8,938.00	.....	.....	76,780.00
Woman's College	.....	.....	432.00	235.00	667.00
Park avenue	870.00	29.00	60.00	25.00	984.00
Richmond street	15,700.00	3,339.00	.....	.....	19,039.00
Biddle street	1,296.00	324.00	.....	.....	1,620.00
Linden avenue	5,364.00	1,341.00	.....	.....	6,705.00
Preston street	.....	.....	.....	126.00	126.00
Light "	.....	.....	.....	10.00	10.00
Grand totals	328,404.60	42,721.20	5,357.00	9,223.94	385,706.74

385,706.74 Duct feet laid in 1903	$ 87,488 91
3,749,390.00 " " previously laid	894,750 98
	$982,239 89

SCHEDULE B—XIII.

List of Wharf Property Owned by the City of Baltimore.

First District:

75 feet on Point street to water—street 41 feet wide.
196 " on Will street to water—street 58 feet wide.
200 " in bed of Will street.
127 " on South Thames street to water.
37 " abreast of Bond street, north of water 7 feet, south 43 feet.
42 " on Ann street, breast of wharf 106 feet from J. Corner & Sons' gate, and 11 feet from Mohler's gate.
40 " on Lancaster street—length from building line to water, 307 feet.
70 " on East Thames street—from building line to breast of wharf 284 feet.

Second District:

80 feet head of Smith's Dock.
24 " foot of Commerce street.
570 " west side of Long Dock.
913 " east side of Long Dock.

Third District:

400 feet on Bowly street.
184 " on Bowly's Wharf.
200 " South street and Bowly's Wharf.

Fourth District:	Rent per annum.
200 feet corner Pratt and Light streets	$3,600 00*
150 " " " Bowly "	.....
66 " foot of Camden street	2,000 00
65 " " Barre "	2,000 00
66 " " Conway "	750 00
66 " " Hughes "	96 00
50 " " Cross "	100 00
82 " " Montgomery street	50 00
50 " " William street	50 00
66 " " Johnson "	
80 " " Henry "	
66 " " Covington street.	

Fifth District:

1,058 feet east of Jones' Falls, from Granby street to lower end of Canton avenue bridge.
715 " south of Canton avenue bridge.
1,079 " from the lower end of the Falls to Harford Run.
600 " " Harford Run to Caroline street.
82 " on Caroline street, north of Slip-Head.
78 " " " south " "
982 " New Wharf, south side Back Basin to corner.
325 " from corner of New Wharf to bridge.
85 " Stone Wharf, outside of bridge, on Block street.
1,200 " on center of Back Basin, both sides, 120 feet breast.
1,710 " west side of Jones' Falls from Pratt street, exclusive of bridges.

Net amount received from Harbor Master, $34,861.24, plus $3,600 collected by Finance Commissioners, makes a total of $38,461.24; capitalized at 6 per cent. would place the value of the wharf property at $641,020.67.

* Collected by Finance Commissioners.

SCHEDULE B—XIV.

List of City Property.

	Acquired.	Size of Lot.	Cost.		
			Lot.	Ground Rent.	Building.
City Hall	1866	238 x 149	$116,276 65	$ 56 00*	$2,271,135 64
New Court House	1893	326-9 x 198-11	435,899 65	.....	2,261,110 38
Baltimore City Jail	1853	6 acres.	17,500 00	.....	319,878 94
Bayview Asylum	1862	70⅛ acres.	14,967 15	.....	592,778 57
" " Addition.	1903	142 acres.	49,666 97	.....	.....
East'n Potter's Field	1876	.....	1,500 00	.....	.....
Quarantine Hospital	1859	20 acres.	2,500 00	.....	45,492 96
Old Quarantine	1845	.....	2,500 00	.....	.....
Property Yard	1898	291 x 130 x 82	9,000 00	540 00*	.....
West'n Potter's Field	1872	.....	2,500 00	.....	.....
City Morgue	1893	.....	2,000 00	.....	5,000 00
Fourth Reg't Armory	1856	144 x 98	.....	1,188 00*	60,000 00
Old City Hall, Holliday street	.....	110 x 51	5,100 00	306 00*	.....
Lot Stiles street, near Gough	.....	.....	.....	160 00	.....
			$659,410 42		
Invest'nt on building	.....	.....	.....	.....	$5,555,396 49
Investment on lots	.....	.....	.....	.....	659,410 42
Total investment					$6,214,806 91

*Owned by Finance Commissioners.

SCHEDULE B—XV.

Schools.

		Erected.	Size of Lot.	Ground Rent.	Paid on Account.	Cost.
Baltimore City College	Howard street, near Centre	1896	208^{6} x 260	$1,000 00* / 3,600 00	$66,666 66	$203,639 00
Eastern High	Aisquith and Orleans streets	1868	151 x 180	615 90	15,591 66	80,000 00
Western High	McCulloh and Lafayette avenue	1895	238^{7} x 230		70,666 66	132,000 00
Polytechnic Institute	Courtland street	1868	90 x 182 / 150 x 138	220 00	34,237 75	43,000 00
Colored High	Pennsylvania ave. and Dolphin street	1893	144^{6} x 190	1,147 50*	19,125 00	26,000 00
School No. 1	N. E. corner Fayette and Greene streets	1880	97 x 102	354 00	9,000 00	25,000 00
" 2	Gough and Stiles streets	1854	75 x 92	50 00* / 200 00	3,500 00	9,000 00
" 3	Eastern and Montford avenues	1880	100 x 150	350 00		24,000 00
" 4	Hanover and Lee streets	1896	126 x 105	210 00* / 135 00	3,500 00 / 18,000 00	35,000 00
" 5	Broadway and Ashland avenue	1876	120 x 120	600 00		18,000 00
" 6	Ann street, near Canton avenue	1878	140 x 63	22 50* / 90 00	300 00 / 6,800 00	14,800 00
" 7	Mullikin street, near Aisquith	1864	74 x 100		E.F.H.S.lot	5,000 00
" 8	Caroline street, near Lombard	1888	105^{6} x 150	221 34	6,200 00	18,000 00
" 9	S. W. corner Fayette and Greene	1875	77^{6} x 170	1,094 75		27,000 00
" 10	Hollins street, near Schroeder	1855	60^{8} x 134	200 00		6,000 00
" 10	Addition				4,130 95	
" 11	Gilmor and Mosher streets	1886	126^{6} x 166^{10}	757 00*	12,616 66	42,000 00
" 12	Barre and Warner streets	1870	67 x 120	268 00		16,000 00
" 13	Patterson Park ave. and McElderry street	1890	155 x 115	530 00*	10,000 00	21,000 00
" 14	Linden avenue and Wilson street	1882	150 x 105	840 00*	14,000 00	21,000 00
" 15	Saratoga and Carrollton avenue	1872	100 x 150	700 00		24,000 00
" 16	Harford and Ashland avenues	1876	105 x 155	790 00		17,000 00
" 17	Light and Poultney streets	1875	62^{1} x 122	217 00	800 00	16,000 00
" 19	Hollins street, near Monroe	1877	140 x 129	750 00		18,000 00

School No. 20	Eden and Preston streets	1868	100 x 207	80 00* / 512 00	1,333 33 / 6,000 00		43,000 00
" 21	Pennsylvania avenue and Robert street	1869	80 x 156	86 00* / 234 00	1,433 33		16,000 00
" 22	Ramsay and Scott streets	1865	71 x 128[6]	177 50	.....		15,000 00
" 23	Gough and Wolfe "	1866	75 x 110	150 00	2,983 33		19,000 00
" 24	Fait avenue and Patuxent street	1890	150 x 100	.....	7,500 00		21,000 00
" 25	Bond street, near Canton avenue	1867	110 x 129	.....	14,962 50		25,000 00
" 26	Orleans and Bond streets	1874	84 x 75	126 00	4,500 00		15,000 00
" 27	Fayette and Chester streets	1869	120 x 91[6]	274 50	.....		18,000 00
" 28	Battery avenue and Clement street	1869	75 x 82	270 00	1,000 00		7,500 00
" 29	Sharp street, near West	1886	114 x 155	570 00*	9,500 00		21,600 00
" 30	Hollins street, near Monroe	1874	75 x 129 / 136 x 129	375 00*	6,250 00 / 4,750 00		16,000 00
" 31	Schroeder and Pierce streets	1890	60 x 124	48 00 / 180 00	2,500 00		21,000 00
" 32	Guilford avenue and Lanvale street	1890	80 x 154	.....	11,800 00		21,000 00
" 33	Light and Clement streets	1890	100 x 100	.....	10,000 00		21,000 00
" 34	Carey and Columbia avenues	1896	100 x 160	385 00*	6,416 66		30,000 00
" 35	Hanover and Winder streets	1895	132 x 198	.....	6,700 00		28,297 00
" 37	Biddle and Patterson Park avenue	1895	165 x 150	.....	8,500 00		25,000 00
" 38	Chesapeake and Hudson streets	1853	80 x 100	.....	(Donated.)		5,000 00
" 39	Carrollton and Riggs avenues	1888	97 x 157	.....	7,000 00		19,000 00
" 42	Broadway and Bank street	1888	100 x 141	44 44 / 200 00*	3,333 33		30,000 00
" 43	High street, near Fayette	1875	80 x 167	900 00	.....		28,800 00
" 43 Branch	124 and 126 N. High street	....	.....	.....	.....		5,000 00
" 44	Sharp street, near Montgomery	1869	100 x 175	600 00	.....		18,000 00
" 45	Greenmount avenue and Eager street	1872	66 x 150	600 00	.....		17,000 00
" 46	Division and Lanvale streets	1877	104[6] x 171[3]	800 00	.....		28,255 66
" 47	Eastern avenue and Patuxent street	1898	144 x 300	1,001 00*	16,683 33		50,000 00
" 48	Hollins and Monroe streets	1890	.....	375 00* / 700 00	6,250 00		21,000 00
" 50	Gorsuch avenue and Homestead	1889	42 x 90	.....	1,000 00		4,500 00
" 51	York road, Waverly	1889	100 x 200	.....	4,000 00		14,500 00
" 52	Oak and Twenty-fifth streets	1889	60 x 160	.....	4,000 00		10,000 00
" 53	St. Paul and Twenty-sixth streets	1897	100 x 123	.....	10,000 00		60,000 00
" 53	Addition	....	100 x 123	.....	11,713,41		.....

		Erected.	Size of Lot.	Ground Rent.	Paid on Account.	Cost.
School No. 54	Huntington avenue, near Charles street	1890	100 x 150		$7,000 00	$18,000 00
" 54	Addition	....	.....	.....	.....	20,000 00
" 55	Chestnut and Fourth avenues	1890	176 x 220	.....	5,000 00	21,000 00
" 55	Addition	1902	120 x 48	.....	1,200 00	46,769 42
" 57	Church street, near Merryman's lane	1889	88 x 245⁶	.....	1,300 00	700 00
" 58	Woodberry avenue, Woodberry	1889	45 x 130	$22 50*	375 00	10,000 00
" 60	Francis and Clifton streets	1893	40 x 150 150 x 120	480 00	7,500 00	29,000 00
" 61	Linden avenue and Konig street	1897	165 x 150	1,155 00*	19,250 00	54,000 00
" 63	Ninth and Northwest streets	1894	128 x 226⁶	.....	4,718 66	25,000 00
" 65	Calverton, Bloomingdale road	1893	75 x 169	.....	1,500 00	15,500 00
" 66	Carroll, Old Frederick road	1889	41 x 289	50 00	1,500 00	500 00
" 67	Old Frederick road, Fairview	1892	150 x 257 61 x 238	360 00*	6,000 00 2,000 00	15,000 00 4,500 00
" 68	Millington and Lehman avenues	1892	200 x 80	240 00*	4,000 00	21,000 00
" 69	Walbrook and Smallwood streets	1902	150 x 210	.....	5,000 00	64,872 09
" 70	William street and Warren avenue	1850	70 x 140	175 00	.....	19,000 00
" 71	Bond and Jefferson streets	1884	70 x 152⁶	19 00	8,700 00	20,000 00
" 72	Ridgely street, near Fremont avenue	1877	124⁶ x 155	620 62	.....	25,000 00
" 73	Aisquith street, near Lexington	1870	100 x 152	25 00	17,100 00	20,000 00
" 74	Twenty-second and Cromwell streets	1902	200 x 60	.....	7,000 00	69,029 00
" 75	Carrollton avenue and Lexington street	1886	149⁶ x 253	400 00	10,000 00	40,000 00
" 76	Clement and Hull streets	1882	100 x 155³	350 00*	5,833 32	18,000 00
" 77	Washington and Fayette streets	1871	93 x 134	372 00 209 25*	3,487 50	20,000 00
" 78	Harlem and Monroe sireets	1893	72 x 245 85 x 249	480 00*	8,000 00 9,500 00	30,500 00
" 79	Park avenue and Hoffman street	1892	120 x 150	1,020 00	.....	35,000 00
" 80	Eden and Federal srteets	1890	100 x 80	.....	8,000 00	33,000 00
" 81	Gilmor and Presstman streets	1875	105⁶ x 155	620 00	.....	18,350 00
" 82	Mulberry street, near Fremont avenue	1868	87⁸ x 134	359 67	.....	15,000 00
" 83	Lakewood avenue and Orleans street	1902	200 x 145	.....	9,166 46	58,897 14

School No. 84	Johnson and Heath streets	1902	148^{3} x 157^{10}		10,000 00	68,957 00
" 91	Argyle avenue, near Lanvale street	1858	80 x 140	120 00* / 195 00	2,000 00	13,000 00
" 92	Charles and Ostend streets	1882	74 x 219^{6}	372 50	6,208 33	28,000 00
" 93	Baltimore street, near Aisquith	1879	120 x 170	300 00 / 1,000 00	6,600 00 / 5,000 00	28,000 00
" 94	Chase and McDonogh streets	1882	80 x 223	501 75	8,362 50	38,675 00
" 95	Lexington street, near Fremont avenue	1890	81 x 220^{6}		15,000 00	25,000 00
" 96	Ramsay and Smallwood streets	1895	357 x 231	480 00*	8,000 00 / 4,000 00	36,885 00
" 99	North avenue and Washington street	1891	120 x 193		9,000 00	25,000 00
" 100	Saratoga street, near Charles	1888	66 x 193	600 00	16,000 00	20,000 00
" 101	Jefferson street, near Caroline	1855	83^{6} x 80	200 00	1,350 00	5,000 00
" 102	Howard and Montgomery streets	1872	50 x 104	120 00*	2,000 00 / 8,000 00	6,000 00
" 105	Rogers avenue, near Lexington street	1874	75 x 105	25 00	5,025 00	14,000 00
" 106	Hill and Sharp streets	1893	155 x 99	192 00	16,000 00	27,000 00
" 107	Biddle street, near Pennsylvania avenue	1870	70 x 150	70 00	15,000 00	10,000 00
" 108	Caroline street, near Bank	1867	76 x 90	134 00	4,800 00	8,000 00
" 109	Barre street, near Eutaw	1854	65 x 112	300 00		10,000 00
" 110	Waesche street, near Fremont avenue	1877	143^{9} x 120	480 00*	9,600 00	22,000 00
" 111	Bond street, near Ashland avenue	1864	80 x 80	130 00*	3,250 00 / 1,200 00	7,000 00
" 112	Carey and Chappell streets	1897	135^{9} x 142	630 00*	10,500 00	40,408 70
" 113	Girard avenue and Sherman lane	1895	120 x 124		7,200 00	23,968 00
" 115	Merryman's lane, Waverly	1889	32^{6} x 127^{5}	50 00	750 00	4,500 00
" 116	Druid Hill avenue, near Biddle street	1841	75 x 100	150 00		12,000 00
Hollins street, near Schroeder street		....				10,000 00
Chester street and Ashland avenue		....	136 x 129 / 200 x 133	829 75*	4,750 00 / 13,829 16	
Pennsylvania avenue and Biddle street		....	92 x 200	1,500 00*	26,500 00	
Mount and Saratoga streets		....	151 x 156		10,000 00	45,221 35
Fremont avenue, near Lombard street (vacant)		1843	74 x 150		1,200 00	8,000 00
					$854,500 69	
Total amount invested in buildings						$2,815,124 36
Total amount invested in lots						854,500 69
Grand total						$3,669,625 05

*Owned by Commissioners of Finance.

SCHEDULE B—XVI.

Fire Department Property.

No.	Organized.	Location.	Size of Lot.	Cost.		Ground Rent.
				Building.	Lot.	
		Engine Companies:				
1	1859	Paca street, near Fayette	150 x 33	$22,000 00	$ 5,000 00	$105 00
2	1859	Barre street, near sharp	92 x 25	10,000 00	1,400 00	62 50
3	1859	Lombard street, near High	100 x 23	8,000 00	3,333 33	150 00*
4	1859	Lexington street, near North	120 x 22	13,000 00	1,924 16	.....
5	1859	Ann street, near Lombard	140 x 30	15,000 00	8,314 00	.....
6	1859	Gay and Ensor streets	80 x 48	22,000 00	10,000 00	62 00
7	1859	Eutaw street and Druid Hill avenue	33 x 57	13,000 00	3,500 00	51 00
8	1871	Mulberry street, near Schroeder	125 x 23	10,000 00	2,350 00	.....
9	1872	Madison avenue, near Broadway	150 x 33	12,000 00	2,640 00	.....
10	1872	Columbia avenue, near Poppleton street	100 x 22	12,000 00	1,173 33	.....
11	1874	Eastern and Patterson Park avenues	64 x 26	12,000 00	.....	123 75
12	1875	Fort and Riverside avenues	125 x 25	12,000 00	.....	150 00
13	1876	Myrtle and Fremont avenues	195 x205	19,463 00	(Donated.)	.....
14	1888	Hollins street, near Monroe	130 x 62	14,000 00	3,000 00	.....
15	1890	Lombard street, near Howard	105 x 33	20,000 00	10,000 00	.....
16	1891	Thames street	.....	2,500 00	.....	.....
17	1895	Fort avenue and Haubert street	51 x 97	13,000 00	2,150 00	.....
18	1893	Twenty-first street, near Maryland avenue	140 x 36	13,600 00	3,400 00	.....
19	1895	North avenue and Bond street	120 x 40	16,000 00	4,000 00	.....
20	1896	North avenue and Tenth street	110 x 60	16,059 00	1,500 00	.....
21	1897	Roland avenue and Oliver Place	90 x 50	15,000 00	2,500 00	.....
22	1901	Patuxent and O'Donnell streets	125 x 50	20,486 00	3,000 00	.....
23	1902	Saratoga street, near Howard	80 x 50	22,354 75	23,145 25	.....
24	1903	Patterson Park avenue, near Orleans street	85 x 25	1,015 47	3,500 00	.....
25	1903	Gold and McCulloh streets	37½x120	23,200 03†	3,020 00	.....

		Hook and Ladder Companies:				
1	1859	Harrison street, near Fayette	106 x 25	10,000 00	2,000 00	100 00
4	1880	Biddle street, near Druid Hill avenue	150 x 30	10,000 00	9,500 00	.....
5	1887	Aisquith street, near Oliver	166 x 22	10,000 00	2,200 00	.....
6	1888	Hanover and Ostend streets	133 x 25	12,000 00	2,000 00	.....
7	1901	York Road	200 x 30	17,677 33	4,737 23†	75 00*
8	1900	Brunswick street, near Frederick avenue	85 x 41	3,000 00	4,125 00	61 50*
10	1895	Lafayette avenue, near Stricker street	145 x 50	14,000 00	5,000 00	.....
11	1898	North avenue and McMechen street	130 x 111 x 172	26,500 00	8,000 00	.....
		Chemical Companies:				
1	1888	Gorsuch avenue	90 x 20	5,000 00	2,483 33	.....
2	1888	Mary street, near Retreat	105 x 20	3,000 00	1,800 00	72 00
3	1888	Belair Road	110 x 40	5,000 00	1,900 00	40 00
				$429,897 94		$1,052 75
		Investment in lots			$186,553 27	
		Investment in buildings			429,897 94	
		Total investment			$616,451 21	

*Owned by Commissioners of Finance.
†In course of construction.

SCHEDULE B—XVII.

Parks and Squares.

	Acquired.	Size.	Ground Rent.	Cost.
Druid Hill Park	1860	$671\frac{21}{100}$ acres.		$695,154 65
Clifton Park	1895	$254\frac{3}{4}$ "		725,535 81
Patterson Park	1850	106 "		309,434 83
Carroll Park	1890	$64\frac{1}{4}$ "		188,827 00
Wyman's Park	1902	45 "		(donated.)
Gwynns Falls Park	1902	29 "		15,987 80
Riverside Park	1862	$17\frac{28}{100}$ "	$3,770 62*	77,488 78
Locust Point Park	1902	$8\frac{3}{4}$ "		25,000 00
Federal Hill Park	1879	$8\frac{1}{4}$ "		91,135 46
Moale's Point Park	1902	$6\frac{1}{2}$ "		25,000 00
Collington Square	1880	$5\frac{14}{100}$ "	960 00*	24,000 00
Bolton Park	1891	$3\frac{3}{4}$ "		103,433 00
Johnson Square	1877	$2\frac{58}{100}$ "		20,000 00
Mt. Royal Terraces	1884	2 "		44,677 58
Eastern Fountain	1818	175 x 350		15,000 00
Madison Square	1853	425 x 350		30,000 00
Jackson Square	1844	405 x 50		(donated.)
Franklin Square	1839	330 x 330		10,000 00
Union Square	1847	290 x 330		(donated.)
Lafayette Square	1859	370 x 330		15,000 00
Perkins Spring Square	1873	555 x 305	2,052 00*	34,200 00
Harlem Park	1869	433 x 700		(donated).
Mt. Vernon Squares, (2)	1815	240 x 60		"
" " " (2)	1815	230 x 50		"
Eutaw Squares, (8)	1853			60,000 00
Fulton Avenue Squares, (14)	1866			(donated).
Broadway Squares, (17)	1851			28,661 48
Mt. Royal Squares, (6)	1874			9,790 28
Park Place Squares, (2)	1860			(donated.)
Taney Place Squares, (2)	1881			"
Wilkens Avenue Squares, (7)	1870			30,000 00
Frick Triangle	1892			(donated.)
Bolin Park	1893	95 x 105		"
Rear North Avenue, Laurens and Bolton streets	1895			"
Maple Park, North avenue, John and Wilson streets	1895			"
Brewer Square	1892			"
Callow Triangle	1898			"
Ashland Square	1851			200 00
Total invested in Parks and Squares				$2,578,526 67

*Owned by Commissioners of Finance.

SCHEDULE B—XVIII.

Police Station Houses.

	Ground Rent.	Lot.	Building.
EASTERN:			
Bank and Bethel streets, 68 feet x 100 feet	.....	.....	$15,302 66
CENTRAL:			
North street, near Lexington, 48 feet 4 inches x 98 feet	$120 00	$17,000 00	19,783 82
NORTHEASTERN:			
Ashland avenue and Durham street, 57½ feet x 37 feet	.....	3,675 00	32,999 00
WESTERN:			
Pine street and Pin alley, 59 feet 8 inches x 140 feet	.....	7,000 00	42,909 70
NORTHERN:			
Cedar avenue and Second avenue, 155 feet x 300 feet	.....	9,307 00	88,346 09
SOUTHWESTERN:			
Calhoun street, Pratt street, Marion alley, 55 feet x 157 feet 2 inches	.....	4,000 00	41,005 36
SOUTHERN:			
Ostend street and Patapsco street, 70 feet x 110 feet	.....	5,800 00	39,364 00
NORTHWESTERN:			
Pennsylvania avenue and Lambert street, 46 feet 6 inches x 150 feet	.....	10,000 00	38,493 41
OLD SOUTHERN:			
Sharp street, Hughes street, Little Montgomery, 20 feet—95 feet, 100 feet—59 feet	.....	795 26	8,230 96
	.....	$57,577 26	
Investment in buildings	.....	.....	$326,435 00
" in lots	.....	.....	57,577 26
Total investment	.....	.....	$384,012 26

SCHEDULE B—XIX.

Markets.

	Ground Rent.	Lot.	Structure.	Total.
Belair Forest st. from Hillen st. to 100 ft. s. of Low st. 50 ft. x 125 ft., Hillen st. to Ensor st. 56 ft. x 150 ft., Hillen st. to Ensor st. 56 ft. x 125 ft., Ensor st. to Gay st. 50 ft. x 190 ft., Ensor st. to Gay st. 50 ft. x 265 ft., Gay st. to Low st. 50 ft. x 100 ft. south of Low st.	.....	$35,088 33	$19,260 45	$54,348 78
Canton O'Donnell st., from Patuxent to Potomac st., 75 x 340 ft.	.....	.....	8,613 15	8,613 15
Centre Market Space: 50 ft. x 340 ft., Balto. st. to Water st. 50 ft. x 230 ft., Water st. to Lombard st. 50 ft. x 262 ft., Lombard st. to Pratt st. 50 ft. x 282 ft., Water st., Mkt. Sp. to Concord st.	.....	.....	33,151 13	33,151 13
Cross Street 515 ft., Charles to Light street. 63 ft., Cross to Brown st.	$974 00*	8,116 67	53,022 68	60,139 35
Fell's Point Broadway, Canton ave. to Thames st. 50 ft. x 265 ft., Canton ave. to Aliceanna st. 50 ft. x 300 ft., Aliceanna to Lancaster st. 50 ft. x 184 ft., Lancaster st. to Thames st.	.....	.....	62,871 96	62,871 96
Hanover Hanover st., Dover st., Camden st. and Camden lane. 140 ft. x 140 ft.	.....	3,866 00	25,001 43	28,867 43

*Owned by Finance Commissioners.

SCHEDULE B—XIX.

Markets—Continued.

	Ground Rent.	Lot.	Structure.	Total.
HOLLINS	.....	.....	$ 29,871 16	$ 29,871 16
Hollins st., Carrollton to Arlington aves. 40 ft. x 340 ft.				
LAFAYETTE	.....	$28,993 24	31,137 15	60,130 39
Sewall st., Penna. to Fremont aves. 50 ft. x 358 ft. and 370 ft.				
LEXINGTON	$ 228 00*	21,800 00	56,387 13	78,187 13
Lexington street and Louisiana ave. 50 ft. x 192 ft., Eutaw st. to Paca st. 50 ft. x 290 ft. Paca st. to Greene st. 50 ft. x 200 ft., Greene st. to Pearl st.				
NORTHEAST	1,200 00*	20,000 00	19,472 93	39,472 93
Monument st., McElderry st., Chester st. and Duncan st. 123¼ ft. x 136½ ft.				
RICHMOND	.....	73,278 73	116,402 94	189,681 67
Biddle st., 103 ft. Richmond st., 120 ft. Howard st., 290 ft. Armory ave., 161 ft. Linden ave., 300 ft.				
	$2,402 00*			
Investment in Lots	.....	$191,142 97		
Investment in Buildings	.....	.....	$454,192 11	
Total Investment	.....	.....	.....	$645,335 08

*Owned by Finance Commissioners.

SCHEDULE B—XX.

List of City Property Under the Control of the Commissioners of Finance.

Location.	Date.	Cost of Lot.	Annual Rental.
24, 25, 26, 27, 28 and 29, s. s., and 5, 6, 7 and 8, n. s. Block street	1817	Made ground.	$1,204 48
Calvert street (Spring lot) City Hospital	1810	$7,500 00	1,000 00
Fayette and Arch streets	1828	800 00	52 00
Old City Yard property	1832	Made ground.	2,434 25
Pleasant and Calvert streets, Boys' Home	1869	15,500 00	50 00
Battery avenue and Clement street (School No. 28)	1863	.....	157 50
5 to 27, 31 to 49 Weyler street, and Light and Weyler streets, and Charles and Weyler streets	1883	8,116 67	772 13
		$31,916 67	

SCHEDULE B—XX*a*.

Free Public Baths.

Bath No. 1:

South High street, near Pratt street.....Lot 45 ft. 6 in. x 106 ft. 3 in.

Bath No. 2:

Columbia avenue and Calendar alley.....Lot 40 ft. x 100 ft. 8½ in.

SCHEDULE B—XX*b*.

Enoch Pratt Free Libraries.

Main Building:

106 West Mulberry street.....Lot 80 ft. 7 in. x 140 ft.

Branches:

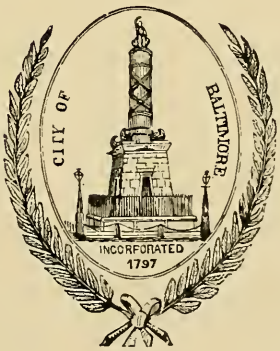
Fremont avenue and Pitcher street.....{ Lot 87 ft. x 78 ft. / Lot 78 ft. x 75 ft.
Hollins and Calhoun streets.....Lot 40 ft. x 90 ft. 4 in.
Light and Gittings streets.....Lot 40 ft. x 83 ft. 3½ in.
Canton and O'Donnell streets.....Lot 60 ft. x 125 ft.
Broadway and Miller street.....Lot 50 ft. x 100 ft.
St. Paul, near Twenty-fifth street.....Lot 70 ft. x 187 ft.
Falls Road, near Fourth avenue.....Lot about 50 ft. x 120 ft.

ANNUAL REPORT

OF THE

Department of Review and Assessment

SUB-DEPARTMENT
APPEAL TAX COURT
CITY HALL



BALTIMORE
WM. J. C. DULANY CO., CITY PRINTERS
1904

REPORT

OF THE

DEPARTMENT OF REVIEW AND ASSESSMENT,

SUB-DEPARTMENT—APPEAL TAX COURT,

CITY HALL.

BALTIMORE, January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore.

GENTLEMEN: We beg herewith to submit a report of this Sub-Department for the fiscal year ending December 31, 1903.

Table "A" is a statement of new assessments and abatements made for the years 1901 and 1902, from January 1, 1903, to December 31, 1903, and for the year 1903, from October 1, 1902, to December 31, 1903.

Table "B" exhibits by wards the number of building permits issued during the year. The permits are issued under the old ward lines or assessment districts, as required by Chapter 120, Section 164 (page 162), Laws of Maryland, 1896.

Table "C" shows the number of new buildings and additional improvements assessed by the Court's assessors, the wards in which they are severally located (old twenty-two wards), and a detailed aggregate valuation of the same.

Table "D" shows the number and amount of increases made in real estate, personal property and securities during the year.

Table "E" shows the number of appeals heard before the Court, with the abatements made.

Table "F" shows the mortgage basis for each year from 1901 to 1903, inclusive.

Table "G" shows the amount of plant exemption granted during the year and transfers of real estate.

Table "H" shows the appropriations, expense account and disbursements.

CONWAY W. SAMS, *President*,
OSCAR LESER,
WILLIAM H. BRUNE,
Judges.

For the taxable basis for 1904, made out and delivered to the City Collector, and also to the Board of Estimates, the following is a statement showing the valuation and assessment of all property subject to taxation in said city as it appears upon the assessment books of said Court on the 1st day of October, 1903. This statement was delivered both to the City Collector and to the Board of Estimates promptly on the 1st day of October under Section 171 of the New Charter:

OCTOBER 1, 1903.

To the Honorable Board of Estimates of Baltimore City.

GENTLEMEN: The following will be the taxable basis of Baltimore City for the year 1904:

Real estate (full city rate)		$230,578,345
Real estate, suburban (60 cent rate)		33,582,204
Personal—Individuals, firms and foreign corporations	$40,275,889	
Less plant exemption	3,753,110	36,522,779
Maryland incorporated companies (estimated)	41,310,375	
Less plant exemption	2,310,375	39,000,000
Securities (30 cent rate)		85,971,333
Deposits in savings banks (estimated) (18¾ cent rate)		66,000,000
Total		$491,654,661

Mortgages not included in the above will yield about $16,000 in revenue to the city.

Principal of taxable mortgages estimated at $5,333,000

TABLE A.

STATEMENT OF NEW ASSESSMENTS AND ABATEMENTS MADE FOR THE YEARS 1901 AND 1902, FROM JANUARY 1, 1903, TO DECEMBER 31, 1903, AND FOR THE YEAR 1903, FROM OCTOBER 1, 1901, TO DECEMBER 31, 1903.

1901

1903.	Real.	Personal.	Securities.
January 31—To new assessments	$ 126	$ 1,825	
February "		2,950	$17,250
March "		300	
April "			17,800
May "		1,985	930
June "	767	5,900	
July "	400	2,550	
August "		450	
September "	2,857	50,640	
October "		101,050	
November "		48,315	11,950
December "		4,650	
Total	$4 150	$220,615	$47,930

1901—Suburban.

1903.	Real.	Personal.	Securities.
January 31—To new assessments			
February "			
March "			
April "			
May "	$128,233		
June "	109,775		
July "	3,534		
August "	1,500		
September "			
October "	22,728		
November "			
December "	933		
Total	$266,703		

TABLE A—Continued.

1901

1903.	Real.	Personal.	Securities.
January—By abatements	$40,000	$67,714	$36,450
February "	21,931	47,582	
March "	2,000	423,151	29,405
April "	2,644	644,254	25,407
May "	129,133	171,703	9,110
June "	6,695	16,445	6,188
July "	5,408	34,880	12,540
August "	16,575	15,706	
September "	3,100	13,047	
October "	19,227	16,805	
November "	4,514	20,980	
December "	150	152,222	22,015
Total	$251,377	$1,624,489	$141,115

1901—Suburban.

1903.	Real.	Personal.	Securities.
January—By abatements			
February "			
March "			
April "			
May "			
June "	$217,760		
July "			
August "			
September "	8,075		
October "	39,100		
November "			
December "			
Total	$264,935		

TABLE A—Continued.

1902

1903.	Real.	Personal.	Securities.
January—To new assessments	$ 126	$435,908	$ 20,080
February "	.....	15,375	43,620
March "	.....	5,600	30,000
April "	.....	299	41,559
May "	.....	585	28,755
June "	3,167	11,550	.....
July "	400	3,650	30,910
August "	.....	9,350	1,740
September "	2,857	76,590	.....
October "	.....	108,875	2,100
November "	.....	80,443	46,080
December "	.....	11,010	2,400
Total	$6,550	$759,235	$247,244

1902—Suburban.

1903.	Real.	Personal.	Securities.
January—To new assessments	.....	.....	.....
February "	.....	.....	.....
March "	.....	.....	.....
April "	.....	.....	.....
May "	$128,233	.....	.....
June "	109,775	.....	.....
July "	3,534	.....	.....
August "	1,500	.....	.....
September "	26,150	.....	.....
October "	51,336	.....	.....
November "	.....	.....	.....
December "	933	.....	.....
Total	$321,461	.....	.....

TABLE A—Continued.

1902

1903.	Real.	Personal.	Securities.
January—By abatements	$ 47,750	$113,137	$389,624
February "	14.213	103,033	75,015
March "	625	437,348	26,630
April "	2,794	597,196	25,457
May "	137,120	192,434	10,225
June "	16,145	13,562	6,188
July "	7,591	92 330	194,014
August "	9,575	42,804	29,278
September "	10,850	26,544	15,601
October "	57,035	59,778	15,915
November "	4,514	28,212	12,705
December "	550	182,198	79,911
Total	$208,762	$1,888,576	$880,563

1902—Suburban.

1903.	Real.	Personal.	Securities.
January—By abatements			
February "			
March "	$ 633		
April "			
May "			
June "	217,760		
July "			
August "	2,000		
September "	13,159		
October "	39,100		
November "			
December "			
Total	$272,652		

TABLE A—Continued.

1903

1902.	Real.	Personal.	Securities.
September—To amount of assessment of 1902 remaining as portion of basis for 1903, less incorporated companies	$246,736,081	$39,780,505	$91,456,648
September—To amount of new assessments	4,941,664	2,215,846	3,345,054
September—To amount judgments Superior Court		65,864	
September—To amount judgments Court Common Pleas		53,159	
September 30—To amount judgments Baltimore City Court		236,919	
October—To new assessments	4,200	18,710	802,249
November "	50,326	41,383	2,315.625
December "	358,357	234,880	304,904
1903.			
January—To new assessments	61,101	35,025	1,000,000
February "	3,000	944,310	944,285
March "		12,442	160,326
April "		14,625	167,475
May "		181,585	414,470
June "	14,627	38,449	142,355
July "	400	18,100	39,635
August "		44,135	50,325
September "	2,857	953,354	167,600
Maryland Incorporated Companies		38,629,742	
To amount of deposits in Savings Banks		64,004,172	
October—To new assessments		120,871	123,066
November— " "	833	40,167	53,680
December— " "	2,167	19,862	5,270
Total	$252,173,613	$147,704,105	$101,492,967

1903

1902.	Real.	Personal.	Securities.
September—By abatements	$805,211	$1,142,443	$3,465,140
October "	39,384	136,475	613,733
November "	41,686	333,111	1,553,104
December "	281,945	204,111	971,772
1903.			
January—By abatements	142,073	179,140	1,698,112
February "	23,884	1,206,183	855,998
March "	53,155	466,005	275,676
April "	16,000	490.244	88,781
May "	137 214	426,241	109,841
June "	9,175	47,426	25,089
July "	15,227	88,906	1,920,480
August "	3,375	54,049	2,941,406
September "	6,312	848,192	71,471
October "	31,131	169,411	15,915
November "	10,506	41,234	6,160
December "	7,800	156,590	46,088
By plant exemption		3,448,474	
Total	$1,624,078	$9,438,235	$14,658,766

1903—Suburban.

1902.	Real.	Personal.	Securities.
September—To amount of suburban assessments of 1902 to be charged at 60 cent rate as basis for 1903	$11,215,099		
Sept.—To am't new assessments	160,750		
October "			
November "			
December "	2,490		
1903.			
Jan.—To am't new assesments			
February "	3,667		
March "			
April "			
May "	128,580		
June "	109,775		
July "			
August "	1,625		
September "	9,575		
October "	17,145		
November "	100		
December "			
Total	$11,648,806		

TABLE A—Continued.

1903—Suburban.

1902.	Real.	Personal.	Securities.
September—By abatements	$ 28,409		
October "	15,275		
November "	8,400		
December "	2,967		
1903.			
January—By abatements	166,125		
February "	10,500		
March "	2,633		
April "			
May "			
June "	217,760		
July "			
August "	2,000		
September "	13,159		
October "	46,739		
November "	375		
December "			
Total	$514,342		

DEPARTMENT OF REVIEW AND ASSESSMENT,

SUB-DEPARTMENT—APPEAL TAX COURT,

CITY HALL.

BALTIMORE, December 31, 1903.

To the Honorable Judges of the Appeal Tax Court:

GENTLEMEN: Herewith is submitted the Report of the Assessors for the year ending December 31, 1903.

Tabular statement "B" exhibits by wards the number of permits for new buildings and additional improvements.

Tabular statement "C" exhibits by wards the number of new buildings and additional improvements assessed, and the detailed and aggregate valuation put upon same.

Tabular statement "D" exhibits by wards new and increased assessments on personal property and securities that have been assessed and reviewed by your Honorable Court.

Tabular statement "E" exhibits by wards the number of appeals filed on real estate, the number dismissed and granted; also the amount of abatements allowed.

Respectfully submitted,

J. H. MORGAN PAYNE,
Chief Assessor.

TABLE B.

PERMITS ISSUED FROM JANUARY 1 TO DECEMBER 31, 1903.

Wards.	New Buildings.	Additional Improvements.	Total.
First	49	28	77
Second	23	21	44
Third	10	26	36
Fourth	17	33	50
Fifth	13	13	26
Sixth	293	32	325
Seventh	80	12	92
Eighth	30	39	69
Ninth	29	23	52
Tenth	10	11	21
Eleventh	5	12	17
Twelfth	13	20	33
Thirteenth	10	14	24
Fourteenth	1	5	6
Fifteenth	5	10	15
Sixteenth	9	15	24
Seventeenth	81	25	106
Eighteenth	67	12	79
Nineteenth	118	8	126
Twentieth	6	5	11
Twenty-first	157	19	176
Twenty-second	134	31	165
Total	1,160	414	1,574

TABLE C.

NEW BUILDINGS, ADDITIONAL IMPROVEMENTS AND ASSESSED VALUATIONS JANUARY 1 TO DECEMBER 31, 1903.

Wards.	New Improvements.	Additional Improvements.	Values.
First	64	28	$140,800
Second	28	15	119,845
Third	12	16	6,975
Fourth	13	26	29,900
Fifth	9	19	107,225
Sixth	332	42	400,386
Seventh	32	12	36,200
Eighth	26	30	175,267
Ninth	22	30	544,950
Tenth	14	8	177,650
Eleventh	5	7	50,150
Twelfth	6	14	192,100
Thirteenth	10	8	21,625
Fourteenth	7	7	15,575
Fifteenth	5	11	14,700
Sixteenth	7	8	60,900
Seventeenth	161	18	182,450
Eighteenth	91	11	127,333
Nineteenth	122	10	151,650
Twentieth	8	5	12,150
Twenty-first	29	4	8,734
Twenty-second	48	4	121,300
Total	1,051	333	$2,697,865

Suburban Rate, 60 Cents.

Wards.	New Improvements.	Additional Improvements.	Values.
Twenty-first	150	12	$460 010
Twenty-second	110	22	169,350
Total	260	34	$629,360

TABLE D.

INCREASED ASSESSMENTS ON REAL ESTATE, NEW AND INCREASED ASSESSMENTS ON PERSONAL PROPERTY AND SECURITIES FOR THE FISCAL YEAR ENDING DECEMBER 31, 1903.

Wards.	Number Real.	Amount Assessed.	Number Personal.	Amount Assessed.	Amount Securities Assessed.
First			19	$ 30,155	$ 1,800
Second			24	163,091	16,590
Third			15	4,735	68,630
Fourth			32	36,000	
Fifth			23	16,547	
Sixth			38	22,229	4,550
Seventh			31	15,965	18,490
Eighth			92	29,145	1,000,671
Ninth			259	1,314,423	5,909,165
Tenth			30	115,900	156,250
Eleventh			34	44,375	40,940
Twelfth			79	42,585	850,869
Thirteenth			36	44,982	3,350
Fourteenth			16	8,949	126,290
Fifteenth			25	934,584	
Sixteenth			22	412,700	3,610
Seventeenth			34	77,197	
Eighteenth			27	624,064	
Nineteenth			39	18,480	87,639
Twentieth			26	7,925	399,355
Twenty-first			51	20,720	1,214,472
Twenty-second			80	53,272	295,245
Total			1032	$4,038,023	$10,197,916

TABLE E.

APPEALS FILED FOR ABATEMENTS FOR THE YEAR ENDING DECEMBER 31, 1903.

Wards.	Number of Appeals.	Number Dismissed.	Number Granted.	Amount Abated.
First	10	2	8	$ 1,100
Second	27	6	21	6,750
Third	60	19	41	16,354
Fourth	45	13	32	28,855
Fifth	63	24	39	19,025
Sixth	53	23	30	10,350
Seventh	28	6	22	4,992
Eighth	41	17	24	12,539
Ninth	29	6	23	28,050
Tenth	15	5	10	11,600
Eleventh	36	9	27	15,214
Twelfth	104	18	86	75,233
Thirteenth	38	1	37	20,850
Fourteenth	36	8	28	6,342
Fifteenth	22	6	16	5,473
Sixteenth	11	2	9	2,300
Seventeenth	16	3	13	14,871
Eighteenth	41	13	28	4,016
Nineteenth	53	17	36	13,770
Twentieth	48	27	21	5,700
Twenty-first	32	8	24	26,213
Twenty-second	86	47	39	22,504
Total	894	280	614	$352,101

Table below shows the mortgage basis in interest December 31, 1903. The 8 per centum due the city upon the mortgage is not yet collected:

TABLE F.

1901	$194,152
1902	203,897
1903	274,953

The exemption from city taxes for manufacturing plants for 1903 amounted to the following:

TABLE G—PLANTS.

Firms and individuals	$3,488,474
Incorporated companies	2,245,972
Total	$5,734,446

Transfers from January 1 to December 31, 1903: This Department made 7,006 transfers of real estate in the twenty-two wards or assessment districts of the city.

TABLE H.

APPROPRIATIONS AND DISBURSEMENTS.

SALARY ACCOUNT.

Appropriation	$23,200 00
Salaries paid	22,815 00
Balance	$385 00

EXPENSE ACCOUNT.

Appropriation	$1,675 00
Expenditures	1,675 00

TWENTIETH
ANNUAL REPORT

—OF THE—

Board of Fire Commissioners,

—AND—

Forty-Fifth Annual Report of the Fire Department

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

OFFICERS OF THE DEPARTMENT.

FIRE COMMISSIONERS:

GEORGE W. GAIL, JR., - - - - - - - - President.
EDWARD M. PARRISH. A. ROSZEL CATHCART.

SECRETARY AND CLERK:

PINKNEY W. WILKINSON.

ASSISTANT CLERK:

WALTER E. HILL.

CHIEF ENGINEER:

GEORGE W. HORTON.

DISTRICT ENGINEERS:

First District, - - - - - JAMES A. CAMPBELL.
Second District, - - - - - AUGUST EMRICH.
Third District, - - - - FREDERICK BRANAN.
Fourth District, - - - - - FIELDING H. LUCAS.
Fifth District, - - - - LEVIN H. BURKHARDT.
Sixth District, - - - - - E. LEWIS SHIPLEY.

SUPERINTENDENT OF MACHINERY:

THOMAS H. MEUSHAW.

SUPERINTENDENT OF FIRE-ALARM TELEGRAPH:

JAMES B. YEAKLE.

REPORT.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS.

BALTIMORE, January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The Board of Fire Commissioners have the honor to submit herewith the Annual Report of the Fire Department of the City of Baltimore.

Exhibits are herewith submitted showing receipts and disbursements for the year ending December 31, 1903; also estimate of the financial requirements of the Department for the year 1904.

The record of fires for 1903 shows 1,522 alarms of all kinds.

The losses for the year (December excepted), so far as can be ascertained, amounted to $670,614.61.

The apparatus of the Department is in the best possible condition, representing all that is best in modern fire-fighting machinery. A close and intelligent surveillance of the equipment is maintained at all times, and necessary repairs or suggested improvements, looking to increased efficiency, are made as expeditiously as possible. Taken as a whole or severally, the apparatus of the Department will compare favorably with that of any other department in the country, either in point of efficiency, general condition or appearance.

The attention of your Honorable Body is most respectfully invited to the reports of the Chief Engineer and the Superintendent of Telegraph. The recommendations contained therein look to the betterment of the service, and have the endorsement and approbation of this Board.

The necessity of the Department being supplied with additional equipment, such as set forth in the recommendations of the Chief Engineer, the wisdom of which has been fully demonstrated, is imperative.

The Board desires to most respectfully renew their recommendations in regard to the salaries of the officers and members of the Department being increased in accordance with those paid in other large cities of similar size; also their recommendation relative to an increase in the salaries of the Superintendent of Telegraph, telegraph operators and probationers.

The Board respectfully recommends the introduction of an ordinance to the effect that all theatres be compelled to have a fire-alarm box installed on the stage, as well as a detail of firemen at each performance, the same to be paid by the parties requiring such.

To the Secretary of the Board, Chief Engineer, Superintendent of Telegraph, the clerical force and officers and members of the Department generally, the Board is indebted for their untiring devotion to the best interest of the service at any and all times.

Respectfully,

GEORGE W. GAIL, JR.,
President,
EDWARD M. PARRISH,
A. ROSZEL CATHCART.

ESTIMATE FOR 1904.

Salaries		$407,760 00
Apparatus, engines, trucks, etc	$ 6,000 00	
Apparatus repairs	12,000 00	
Accident	3,000 00	
Feed	23,000 00	
Fuel	6,000 00	
Furniture	1,500 00	
Harness	1,250 00	
Horseshoeing	5,300 00	
Hose	4,000 00	
Horses	4,000 00	
Wharf rent	600 00	
Electricity and gas	2,500 00	
Insurance	2,500 00	
Washing	3,500 00	
Sick	4,600 00	
Pensioners	11,000 00	
Cable for subways	3,000 00	
Fire-alarm boxes	660 00	
Office expenses	1,000 00	
Miscellaneous	6,500 00	
Storeroom	6,500 00	
		114,410 00
		$522,170 00

APPROPRIATIONS.

Amount appropriated by the Mayor and City Council out of the general levy, 1903:

Department salaries and expenses	$500,970 00	
No. 24 Engine Company	20,300 00	
No. 25 Engine Company	18,580 00	
		$539,850 00

Amount drawn from the City Comptroller, as follows:

Department salaries and expenses	$500,666 04	
No. 24 Engine Company	19,849 13	
No. 25 Engine Company	18,580 00	
		539,095 17
		$ 754 83

GENERAL STATEMENT.

Amount drawn from the City Comptroller, account general appropriation	$539,095 17
Amount received from sale of old material	2,322 36
	$541,417 53

Expenditures, account of Department	$539,095 17
Amount paid City Comptroller	2,322 36
	$541,417 53

EXPENDITURES, 1903.

Salaries		$386,256 04
Apparatus	$ 5,989 47	
Apparatus repairs	6,284 25	
Accident	1,719 62	
Feed	21,885 84	
Fuel	8,841 82	
Furniture	2,665 15	
Harness	700 80	
Horseshoeing	4,725 25	
Hose	4,240 00	
Horses	4,080 00	
Wharf rent	600 00	
Electricity and gas	1,879 05	
Office expenses	832 23	
Life insurance	2,565 00	
Miscellaneous	9,907 06	
Washing	3,168 00	
Pensioners	11,166 24	
Sick	4,260 25	
Fire-alarm Telegraph Department	13,036 27	
Storeroom	4,873 70	
Fire-alarm boxes	990 00	
		114,410 00
Salaries—No. 24 Engine Company		4,849 13
Equipment—No. 24 Engine Company		15,000 00
Salaries and equipment—No. 25 Engine Company		18,580 00
		$539,095 17

COMPANY EXPENDITURES, 1903.

No. 1	Engine Company	$ 12,043 25
" 2	"	12,484 57
" 3	"	12,127 20
" 4	"	12,465 41
" 5	"	11,406 58
" 6	"	12,566 71
" 7	"	12,191 94
" 8	"	13,479 81
" 9	"	12,868 41
" 10	"	12,000 25
" 11	"	11,782 33
" 12	"	11,289 97
" 13	"	12,414 18
" 14	"	11,381 50
" 15	"	24,713 70
" 16	"	14,252 69
" 17	"	12,070 03
" 18	"	12,335 81
" 19	"	12,013 11
" 20	"	12,082 39
" 21	"	12,232 54
" 22	"	12,996 46
" 23	"	11,520 14
" 24	"	19,849 13
" 25	"	18,580 00
No. 1	Hook and Ladder Company	11,303 76
" 2	" "	11,336 86
" 3	" "	11,664 81
" 4	" "	12,631 34
" 5	" "	16,288 79
" 6	" "	12,142 73
" 7	" "	6,211 13
" 8	" "	5,277 77
" 9	" "	4,745 26
" 10	" "	12,120 57
" 11	" "	12,393 81
No. 1	Chemical Engine Company	3,033 56
" 2	" "	2,906 44
" 3	" "	2,860 24
Commissioners		3,000 00
Officers		15,572 63
Fire-alarm Telegraph Department		34,645 70
Miscellaneous		3,955 76
Office expenses		891 49
Pensioners		11,166 24
Storeroom		5,491 17
Reserve		6,307 00
		$539,095 17

FINANCIAL STATEMENT OF THE BALTIMORE CITY FIRE DEPARTMENT FOR TWELVE MONTHS ENDING DECEMBER 31, 1903.

Dr.		Cr.	
January, drawn from City Comptroller.....	$ 41,542 72	January, drawn from City Comptroller.....	$ 41,542 72
February, " " "	39,782 74	February, " " "	39,782 74
March, " " "	41,364 34	March, " " "	41,364 34
April, " " "	40,185 63	April, " " "	40,185 63
May, " " "	39,227 98	May, " " "	39,227 98
June, " " "	40,522 62	June, " " "	40,522 62
July, " " "	41,725 98	July, " " "	41,725 98
August, " " "	41,569 08	August, " " "	41,569 08
September, " " "	49,441 75	September, " " "	49,441 73
October, " " "	64,041 60	October, " " "	64,041 60
November, " " "	43,549 42	November, " " "	43,549 42
December, " " "	56,141 33	December, " " "	56,141 33
	$539,095 17		$539,095 17

RECAPITULATION.

Account	Appropriation.	Expenditures.	
Department	$500,970 00	$500,666 04	$303 96
No. 24 Engine Company	20,300 00	19,849 13	450 87
No. 25 Engine Company	18,580 00	18,580 00	.....
Balance undrawn			$754 83

REVENUE.

Sale of old material	$2,322 36

REPORT

OF THE

CHIEF ENGINEER.

1903.

REPORT.

OFFICE OF THE CHIEF ENGINEER,

BALTIMORE, January 1, 1904.

To the Honorable the Board of Fire Commissioners:

GENTLEMEN: I have the honor to submit herewith the Annual Report of the Chief Engineer, it being the Forty-fifth Annual Report of the Paid Department.

FIRES.

The number of alarms and fires attended were as follows: Box alarms, 952; silent or verbal alarms, 421; also special alarms, which were for fires extinguished by others than members of the Department, but inspected in order to see that they had been entirely extinguished, 149; making a total of 1,522 alarms and fires to which the attention of the Department had been called.

As compared with 1902, there was a decrease of 25 alarms.

The fires for the year were classified as follows: In brick, stone or iron buildings, 1,262; in wooden buildings, 122; fires in other than buildings, 82; false alarms, 56; making a total of 1,522.

LOSSES FOR 1903.

January	$ 27,055 20
February	31,401 73
March	24,302 85
April	15,618 59
May	26,134 47
June	81,833 72
July	31,459 43
August	8,248 77
September	209,276 69
October	22,182 95
November	17,630 59
December	.....
	$670,614 61

APPARATUS.

The apparatus both in service and in reserve are in the best of condition.

APPARATUS PLACED IN SERVICE DURING THE YEAR.

One first-size La France fire engine placed in service at No. 7 Engine Company, one first-size La France fire engine placed in service at No. 9 Engine Company, and one first-size Hayes aerial truck placed in service at No. 5 Hook and Ladder Company.

No. 23 Engine Company was placed in active service at their respective quarters, Saratoga street, near Howard, on December 1, 1903. No. 25 Engine Company will be placed in service on or about January 13, 1904, at their respective quarters, McCulloh and Gold streets. No. 24 Engine Company will be placed in service on or about June 15, 1904.

HORSES.

There are at present a total of 209 horses in service of the Department. Of this number 167 are assigned to the several companies; 22 are assigned for use of officers and the Fire Alarm Telegraph Department, 20 being held in reserve. Thirty-seven horses have been purchased during the year, 13 being condemned and disposed of as unfit for further service; 6 died from sickness and injuries. One hundred and eighty-six cases of sickness and injuries, covering a period of 2,403 days' treatment, were attended at Department hospital.

FIRE HYDRANTS.

During the year 30 fire hydrants were erected, making a total number of 2,733 hydrants in service.

WILLIAM C. STALLINGS,
PILOT.

Died April 26, 1903.

Had been an active member of the Department for nearly twelve years.

CHRISTIAN J. WEBER,
PROBATIONER.

Died March 13th, 1903.

Had been an active member of the Department for little over a year.

RECOMMENDATIONS.

I would respectfully recommend the following Engine Companies located in the vicinity of—

Central avenue and Fayette street.

Leadenhall and West streets.

Cathedral and Preston streets.

Pratt and Greene streets.

Aisquith and Oliver streets (quarters No. 5 Hook and Ladder Company).

Caroline street and Eastern avenue.

Guilford avenue and Preston street.

Gay and Second streets.

Charles and Barnet streets.

Hanover and Cross streets.

North and Fulton avenues.

Frederick road and Garrison avenue.

York road, Waverly, (quarters No. 7 Hook and Ladder Company).

Reisterstown road and Kate avenue.

Truck Companies located in the vicinity of—

Pratt and Carey streets.

Central avenue and Fayette street.

Calvert and Read streets.

Patterson Park avenue and Biddle street.

No. 1 Hook and Ladder Company transferred from its present location to the vicinity of Gay and Second streets.

The installation of a Second-size Truck at quarters of No. 7 Hook and Ladder Company, York Road, Waverly.

The Combination Truck at quarters of No. 7 Hook and Ladder Company, York road, Waverly, transferred to quarters of No. 1 Chemical Engine Company, Homestead.

The installation of a Fireboat in the vicinity of the foot of Covington street.

Several times during the past year the importance of having the above companies placed in service at the earliest possible moment has been made manifest.

The equipping of all hose wagons with rubber tires.

The increase of probationers' salary to $600 per annum.

Herewith submitted as part of my report are tables relative to the work of the several companies, record of large fires, casualties, etc.

The harmony that exists among the officers and members of the uniformed force, and the work performed by them at fires under the most trying circumstances, is deserving of the highest commendation and praise.

In conclusion, I desire to extend to your Honorable Body my thanks for your cordial support.

I desire to thank the office force for the prompt manner in which the clerical work of the Department is performed.

I desire to extend my appreciation to the officers and members of the Fire Insurance Salvage Corps for assistance rendered by them.

I desire to extend my thanks to the Police Department for the able manner in which they have assisted this Department in the discharge of their duties.

Respectfully submitted,

GEO. W. HORTON,
Chief Engineer.

DESCRIPTION OF ENGINES.

Engines.		Built By	When Built.	Rebuilt By	When Rebuilt.	Size.	Cylinders. Diam.	Cylinders. Stroke.	Pumps. Diam.	Pumps. Stroke.	Boilers. Diam.	Boilers. Height.	Gallons per Minute.	Weight as Drawn to Fires.	Style of Engine.
No.	1	La France Co	1898			x 1st	8½	9	5¼	9	36	66	1,000	10,400	Vertical, crane-neck, piston double.
"	2	La France Co	1899			x 1st	8½	9	5¼	9	36	66	1,000	10,400	" " " "
"	3	Ives & Bro	1874	La France Co.	1892	x 1st	8½	10	5	10	38	64	1,000	10,760	" " " "
"	4	La France Co	1892			1st	8¼	9	5	9	36	60	900	9,600	" " " "
"	5	La France Co	1890			2d	8¼	8	4¾	8	32	60	700	8,500	" " " "
"	6	La France Co	1901			1st	8¾	9	5¼	9	36	66	1,000	10,400	" " " "
"	7	La France Co	1903			1st	8¾	9	5¼	9	36	66	1,000	10,400	" " " "
"	8	La France Co	1888			3d	8⅛	6	4¾	6	30	60	600	7,100	" " " "
"	9	La France Co	1903			1st	8¾	9	5¼	9	36	66	1,000	10,400	" " " "
"	10		1901			1st	8¾	9	5¼	9	36	66	1,000	10,400	" " " "
"	11	La France Co	1889			2d	8¾	8	4¾	8	34	60	750	8,400	" " " "
"	12	La France Co	1894			2d	8¼	8	4¾	8	33	62	750	8,660	" " " "
"	13	La France Co	1893			2d	8¼	8	4¾	8	33	62	750	8,200	" " " "
"	14	Clapp & Jones	1888			3d	7	7	4⅜	7	32	60	600	6,990	" " " "
"	15	Clapp & Jones	1891	La France Co	1901	1st	9¾	8	5¾	8	38	62	1,000	9,460	" " " "
*"	16	Hull—Brusstar Bros... Pump—Thos. Manning Engine—E J. Codd Co	1891	J. E. Woodall & Co...	1897		16	10	9	10			4,400		Double vertical pumps
"	17	La France Co	1895			2d	8¼	8	4¾	8	33	62	750	8,700	Vertical, crane-neck, piston double.
"	18	La France Co	1893			3d	7⅜	8	4¼	8	32	60	600	7,000	" " " "
"	19	La France Co	1895			3d	7⅜	8	4¼	8	32	60	600	7,100	" " " "
"	20	La France Co	1897			3d	7½	8	4¼	8	30	60	650	8,950	" " " "
"	21	Clapp & Jones	1885			3d	6¼	7	3¾	7	32	60	500	6,700	Horizontal, half-crane-neck, piston double.

DESCRIPTION OF ENGINES—Continued.

Engines.	Built By	When Built.	Rebuilt By	When Rebuilt.	Size.	Cylinders. Diam.	Cylinders. Stroke.	Pumps. Diam.	Pumps. Stroke.	Boilers. Diam.	Boilers. Height.	Gallons per Minute.	Weight as Drawn to Fires.	Style of Engine.
No. 22	La France Co.	1891			3d	7⅜	8	4¼	8	30	60	600	7,120	Vertical, crane-neck, piston double.
" 23	La France Co.	1903			1st	8¾	9	5¼	9	36	66	1,000	10,400	" " " "
" 24	La France Co.	1886	La France Co.	1898	3d	7¾	8	4⅜	8	30	65	650	7,500	" " " "
" 25	La France Co.	1898			2d	8	9	4⅝	9	33	62	700	8,000	" " " "
†A	Ives Bros.	1872	La France Co.	1885	3d	10	12	5¼	12	34	62	500	7,800	Single horizontal, straight frame.
†B	Poole & Hunt	1860	Clapp & Jones	1884	3d	10	12	5	12	32	60	400	7 500	Single vertical.
†C	Clapp & Jones	1886	La France Co	1897	2d	7½	7	4¾	7	32	60	70	7,180	Vertical, crane-neck, piston double.
†D	La France Co.	1889			1st	8¾	8	5	8	33	60	900	9,600	" " " "
†E	Silsby Manfg. Co.	1887			3d	Rotary		Pump.		34	60	600	6,700	Rotary, " " "
†F	Ives Bros.	1875	La France Co.	1883	1st	8	10	4¾	10	38	62	900	9,400	Double vertical, crane neck, piston.

*Fireboat. †Reserve.

HOOK AND LADDER TRUCKS IN SERVICE.

COMPANY.	DESCRIPTION.
No. 1 Hook and Ladder Company.	1 first-size Hayes aerial truck.
" 2 " " " "	1 " " " " "
" 3 " " " "	1 second-size Hayes aerial truck.
" 4 " " " "	1 first-size Hayes aerial truck.
" 5 " " " "	1 " " " " "
" 6 " " " "	1 " " " " "
" 7 " " " "	1 combination Holloway truck.
" 8 " " " "	1 " " " "
" 9 " " " "	1 " " " "
" 10 " " " "	1 second-size Hayes aerial truck.
" 11 " " " "	1 " " " " "

HOOK AND LADDER TRUCKS IN RESERVE.

3 first-size Hayes aerial trucks.
1 second-size Hayes aerial truck.

CHEMICAL ENGINES IN SERVICE.

COMPANY.	DESCRIPTION.
No. 1 Chemical Company.....	1 double-tank 50-gallon Holloway Chemical Engine.
No. 2 Chemical Company.....	1 double-tank 60-gallon Holloway Chemical Engine.
No. 3 Chemical Company.....	1 Bank Ladder Truck.

CHEMICAL ENGINES IN RESERVE.

1 double 50-gallon Holloway Chemical Engine.
1 double 85-gallon Holloway Chemical Engine.

HOSE.

COMPANIES.	Fabric Hose Received.	Fabric Hose in Service.	Fabric Hose Condemned.	Chemical Hose Received.	Chemical Hose in Service.	Chemical Hose Condemned.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
No. 1 Engine Company..	900	3,450	1,250	250	250	250
" 2 " "	1,000	3,350	650	100	250	100
" 3 " "	500	3,500	200	100	525	75
" 4 " "	1,000	3,600	550	250	300	200
" 5 " "	....	3,000	50	50	250	50
" 6 " "	.....	3,500	350	350	400	100
" 7 " "	500	2,750	800	200	200	.....
" 8 " "	300	3,000	200	.....	250	.....
" 9 " "	500	3,300	200	50	250	50
" 10 " "	500	3,300	450	100	250	100
" 11 " "	....	3,000	100	....	250	.....
" 12 " "	.....	3,500	450	50	300	50
" 13 " "	400	3,050	200	.....	.....	.....
" 14 " "	200	3,100	100	.....	250	.....
" 15 " "	600	3,800	800	100	500	100
" 16 " "	300	1,575	.....	.....	200	.....
" 17 " "	.....	2,700	100	.....	200	.....
" 18 " "	1,000	2,950	1,300	50	250	50
" 19 " "	.....	3,700	.....	50	250	50
" 20 " "	1,000	3,600	500	.....	250	.....
" 21 " "	400	3,200	200	50	300	.....
" 22 " "	.....	2,800	.....	.....	200	.....
" 23 " "	.....	2,950	50	.....	200	.....
" 5 Hook and Ladder.	.....	.....	.....	250	250	.....
" 7 " "	900	1,600	.....	.....	250	.....
" 8 " "	.....	700	.....	... .	300	.....
" 9 " "	.....	.....	.....	.....	200	50
" 1 Chemical.....	.....	.....	.....	.....	250	.....
" 2 "	.....	.....	.....	.....	250	.....

MANUAL FORCE OF THE DEPARTMENT.

OFFICERS.

Chief Engineer	1	
District Engineers	6	
Superintendent	1	
		8

ENGINE COMPANIES.

No. 1 Engine Company	11	
" 2 "	12	
" 3 "	11	
" 4 "	12	
" 5 "	11	
" 6 "	12	
" 7 "	11	
" 8 "	11	
" 9 "	11	
" 10 "	11	
" 11 "	11	
" 12 "	11	
" 13 "	11	
" 14 "	11	
" 15 "	21	
" 16 "	12	
" 17 "	12	
" 18 "	12	
" 19 "	12	
" 20 "	12	
" 21 "	12	
" 22 "	12	
" 23 "	12	
" 24 "	12	
" 25 "	12	
		298

HOOK AND LADDER COMPANIES.

No. 1 Hook and Ladder Company	11	
" 2 " "	11	
" 3 " "	12	
" 4 " "	12	
" 5 " "	12	
" 6 " "	12	
" 7 " "	5	
" 8 " "	5	
" 9 " "	5	
" 10 " "	12	
" 11 " "	12	
		109

CHEMICAL ENGINE COMPANIES.

No. 1 Chemical Engine Company	3	
" 2 " "	3	
" 3 " "	3	
		9
Probationary firemen		20
Total active membership of the Department		444
Disabled members pensioned		28
Total membership		472

SALARIES OF OFFICERS AND MEMBERS.

	Per Annum.
1 Chief Engineer	$2,500 00
6 District Engineers, each	1,400 00
1 Superintendent of Machinery	1,400 00
33 Captains of engine and hook and ladder companies, each	1,100 00
34 Lieutenants of engine and hook and ladders companies, each	1,000 00
25 Enginemen	1,100 00
27 Assistant Enginemen, each	900 00
16 Tillermen of hook and ladder companies, each	900 00
32 Hostlers of engine and hook and ladder companies, each	900 00
3 Captains of chemical engine companies, each	900 00
3 Captains of combination hook and ladder companies, each	900 00
3 Hostlers of chemical engine companies, each	800 00
3 Hostlers of combination hook and ladder companies, each	800 00
169 Pipemen, each	800 00
63 Laddermen, each	800 00
2 Pilots on fireboat, each	1,000 00
3 Stokers on fireboat, each	800 00
20 Probationary firemen, each	500 00

444 Officers and members.

PENSION ROLL.

Name.	Position at Time of Retirement.	Amount of Annual Pension.
G. W. Ellender	District Engineer	$400 00
W. M. Dunn	District Engineer	400 00
J. H. Hayward	Captain	400 00
W. G. Miller	Captain	400 00
T. H. Humphreys	Engineman	400 00
Michael Lycett	Engineman	550 00
Samuel Stansbury	Engineman	550 00
J. W. Blake	Tillerman	400 00
James Gill	Tillerman	450 00
John J. Purcell	Tillerman	450 00
John Wernsing	Hostler	400 00
J. F. Peerce	Hostler	450 00
Henry Murphy	Hostler	450 00
J. R. Battee	Callman	400 00
William Gordon	Callman	400 00
J. H. Gildea	Callman	400 00
L. Pistel	Callman	400 00
G. H. Little	Pipeman	400 00
Solomon Uhlfelder	Pipeman	400 00
J. J. McGraw	Pipeman	400 00
Charles A. Soistman	Pipeman	400 00
G. B. Chapman	Pipeman	400 00
Philip Bowen	Pipeman	400 00
H. E. Curry	Ladderman	400 00
J. T. Elliott	Ladderman	400 00
R. M. Brown	Ladderman	400 00
William White	Ladderman	400 00
Charles E. Brown	Ladderman	400 00

NUMBER OF BOXES TO WHICH COMPANIES ARE ASSIGNED TO RESPOND.

Companies.	First Alarm.	Second Alarm.	Third Alarm.	Total.
No. 1 Engine Company	82	127	104	313
" 2 " "	84	67	63	214
" 3 " "	60	86	98	244
" 4 " "	102	140	101	343
" 5 " "	62	59	45	166
" 6 " "	64	141	78	283
" 7 " "	65	128	97	290
" 8 " "	64	104	49	217
" 9 " "	83	71	59	213
" 10 " "	58	76	71	205
" 11 " "	36	46	10	92
" 12 " "	41	15	33	89
" 13 " "	79	62	49	190
" 14 " "	56	24	18	98
" 15 " "	137	110	86	333
" 16 " "	45	4	.....	49
" 17 " "	16	10	10	36
" 18 " "	77	39	47	163
" 19 " "	64	43	47	154
" 20 " "	29	13	16	58
" 21 " "	14	6	4	24
" 22 " "	16	3	1	20
" 23 " "	58	104	110	272
No. 1 Hook and Ladder Company	95	97	22	214
" 2 " " " "	153	105	70	328
" 3 " " " "	80	30	13	123
" 4 " " " "	66	87	90	243
" 5 " " " "	63	77	31	171
" 6 " " " "	60	38	7	105
" 7 " " " "	22	9	.....	31
" 8 " " " "	17	17	.....	34
" 9 " " " "	14	1	.....	15
" 10 " " " "	54	40	37	131
" 11 " " " "	36	53	26	151
No. 1 Chemical Engine Company	24	2	.....	26
" 2 " " "	29	36	.....	65
" 3 " " "	17	.....	.....	17

SERVICE OF COMPANIES AT FIRES.

ENGINE COMPANIES.	Responded.	Transferred.	Feet of Hose Laid.	Tanks Used.	Extinguishers Used.	Working Time of Steamers.		Time Away from Quarters.		Working Time of Tower.	
						Hours.	Min.	Hours.	Min.	Hours.	Min.
No. 1 Engine Company.....	194	.....	27,550	81	4	89	55	204	35	.....	.....
" 2 " "	221	.....	25,900	76	5	82	15	154	20	.....	.....
" 3 " "	173	.....	24,450	58	.....	76	.....	131	15	.....	.....
" 4 " "	186	.....	33,450	75	.....	90	30	237	30	.....	.....
" 5 " "	187	16	24,500	67	.....	53	40	137	45	.....	.....
" 6 " "	165	2	28,300	89	2	55	25	142	10	.....	.....
" 7 " "	202	.....	29,800	66	.....	66	30	155	30	.....	.....
" 8 " "	183	7	1,550	41	.....	32	30	129	20	.....	.....
" 9 " "	200	8	23,450	64	.....	34	25	149	10	.....	.....
" 10 " "	176	2	18,550	48	1	28	30	127	15	6	30
" 11 " "	119	14	9,050	20	2	30	25	124	.....	.....	.....
" 12 " "	117	10	16,300	42	.....	33	.....	118	.....	.....	.....
" 13 " "	182	8	13,950	36	.....	15	45	129	35	.....	.....
" 14 " "	103	1	10,500	27	.....	17	24	68	40	.....	.....
" 15 " "	225	.....	31,150	72	.....	68	15	167	30	23	30
" 15 " " (2d Sec.)	28	.....	8,600	14	.....	24	½	38	15	.....	.....
" 16 " "	78	.....	1,950	.....	.....	26	25	68	40	.....	.....
" 17 " "	37	16	10,700	14	1	8	30	99	45	.....	.....
" 18 " "	129	8	17,850	39	.....	20	35	143	45	.....	.....
" 19 " "	116	4	10,650	34	1	24	57	82	22	.....	.....
" 20 " "	35	4	6,600	9	1	18	30	67	25	.....	.....
" 21 " "	31	11	8,800	14	.....	10	30	67	15	.....	.....
" 22 " "	44	16	6,550	23	.....	7	35	78	20	.....	.....
" 23 " "	19	.....	6,300	3	.....	25	15	38	15	3	.....

SERVICE OF COMPANIES AT FIRES.

Hook and Ladder Companies.	Responded.	Transferred.	Feet of Hose Laid.	Tanks Used.	Extinguishers Used.	Ladders Used.	Feet of Ladders Used.	Working Time.	
								Hrs	Min
No. 1 Hook & Ladder Co.	140	7	.....	.....	33	224	4,704	216	6
" 2 " "	189	7	.....	.....	23	288	6,164	189	14
" 3 " "	190	15	.....	.....	22	217	5,425	124	35
" 4 " "	147	2	.....	.....	14	139	3,475	128	40
" 5 " "	128	4	50	.....	49	127	2,659	82	32
" 6 " "	155	3	.....	.....	80	95	1,773	108	30
" 7 " "	36	.....	3,050	10	5	22	418	26	20
" 8 " "	17	.....	700	5	.....	18	296	15	45
" 9 " "	27	.....	.....	12	7	32	800	32	10
" 10 " "	118	14	.....	.....	42	91	1,414	53	45
" 11 " "	96	22	.....	.....	49	108	2,600	241	40

SERVICE OF COMPANIES AT FIRES.

Chemical Engines.	Responded.	Transferred.	Tanks Used.	Extinguishers Used.	Ladders Used.	Time Away from Quarters.	
						Hrs.	Min.
No. 1 Chemical Company	35	.....	7	.....	.....	22	50
" 2 "	55	.....	26	.....	.....	40	45
" 3 "	14	.....	.....	6	21	26	40

SECOND, THIRD AND GENERAL ALARMS OF FIRE DURING 1903.

Box.	Location.	Date.	Alarm.	Alarm.	Alarm.
348	Guilford avenue and Lanvale street	January 16...	Second		
4	Calvert and Baltimore streets	February 23...	Second	Third	
464	Pratt and Calhoun streets	April 19...	Second	Third	
221	Holliday and Saratoga streets	May 25...	Second		
426	Baltimore street and Carrollton avenue	June 9...	Second		
6	Calvert and Lombard streets	June 11...	Second		
41	St. Paul and Fayette streets	June 30...	Second	Third	
336	Mulberry and Howard streets	July 11...	Second		
415	Baltimore and Eutaw streets	Sept. 19...			General.
147	Central avenue and Aliceanna street	Sept. 20...	Second		
613	Hughes and Covington streets	Sept. 23...	Second		
227	Front and Forrest streets	Sept. 25...	Second		
419	Saratoga and Eutaw streets	October 13...	Second		
726	Charles and Chase streets	November 12...	Second		
415	Baltimore and Eutaw streets	December 6...			General.
581	Franklin and Eutaw streets	December 9...	Second	Third	
418	Howard and Lexington streets	December 9...	Second		
125	Patterson and Cable streets	December 12...	Second	Third	
413	Fayette and Liberty streets	December 15...	Second	Third	
248	Bath and Holliday streets	December 21...	Second	Third	
173	Montford avenue and Aliceanna street	December 24...	Second	Third	

NUMBER OF FIRES AND LOSSES EACH YEAR SINCE THE ORGANIZATION OF THE PAID FIRE DEPARTMENT.

Year.	Number of Fires.	Losses.
1859	98	$ 350,000 00
1860	112	310,000 00
1861	115	60,000 00
1862	130	83,000 00
1863	138	120,482 33
1864	143	163,528 49
1865	163	71.358 90
1866	178	181,115 00
1867	193	293,045 00
1868	145	76,244 75
1869	187	398,259 09
1870	203	432,717 07
1871	226	475,391 00
1872	245	300,000 00
1873	265	892,628 58
1874	384	506,826 15
1875	348	608,351 30
1876	332	563,248 78
1877	420	438,715 57
1878	371	162,312 78
1879	306	193,654 54
1880	343	580,290 09
1881	324	454,773 35
1882	358	330,113 84
1883	399	561,520 00
1884	388	617,871 79
1885	474	441,743 06
1886	430	896,527 12
1887	496	1,162,359 26
1888	602	1,272,478 82
1889	545	477,329 07
1890	594	441,152 65
1891	676	650,009 73
1892	795	839,435 77
1893	829	1,153,129 76
1894	831	542,188 29
1895	816	730,751 11
1896	985	423,062 79
1897	1,110	572,497 39
1898	1,375	861,114 77
1899	1,309	438,583 38
1900	1,458	1,084,471 84
1901	1,498	1,499,119 90
1902	1,547	681,968 89
1903	1,522 (Estimated)	670,614 61

The total loss by fires in forty-five years has been..... $24,062,985 71

SUMMARY OF FIRES FOR THE YEAR 1903.

MONTH.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Boxes.	Silents.	Specials.	Total.
January	11	26	12	21	18	8	96	61	25	182
February	15	21	8	19	15	13	91	51	16	158
March	7	9	10	9	12	15	62	27	7	96
April	18	12	8	15	9	7	69	28	12	109
May	11	23	9	16	12	7	78	30	5	113
June	7	11	3	6	14	12	53	25	4	82
July	16	16	11	18	7	13	81	24	14	129
August	12	16	8	12	2	8	58	23	9	90
September	9	15	8	12	11	10	65	27	7	99
October	13	19	9	21	19	17	98	30	10	138
November	8	20	15	23	9	10	85	28	15	128
December	19	27	21	22	20	7	116	57	25	198
	146	215	122	194	148	127	952	421	149	1,522

FIRES INVESTIGATED BY MEMBERS OF DEPARTMENT AND WHICH WERE EXTINGUISHED BY POLICE AND CITIZENS.

No.	1	Engine Company	7
"	2	"	5
"	3	"	...
"	4	"	4
"	5	"	11
"	6	"	10
"	7	"	2
"	8	"	5
"	9	"	3
"	10	"	4
"	11	"	5
"	12	"	...
"	13	"	5
"	14	"	...
"	15	"	6
"	16	"	8
"	17	"	...
"	18	"	4
"	19	"	...
"	20	"	...
"	21	"	...
"	22	"	10
"	23	"	...
"	24	"	...
"	25	"	...
No.	1	Hook and Ladder Company	1
"	2	" "	...
"	3	" "	4
"	4	" "	...
"	5	" "	9
"	6	" "	4
"	7	" "	4
"	8	" "	...
"	9	" "	...
"	10	" "	10
"	11	" "	11
No.	1	Chemical Company	1
"	2	"	2
"	3	"	...
			135

TABLE SHOWING THE DIFFERENT CAUSES OF FIRES AND ALARMS DURING 1903.

Accidental discharge of pistol	1
Alcohol lamp	5
Accidental	1
Burning soot in chimney	120
Bursting of a starching machine	1
Burning grease	2
Burning rubbish	23
Building collapsed	1
Burning brush	2
Burning sulphur	4
Bonfire	4
Back draught in chimney	1
Bursting hot-water back	1
Coal oil stove	100
Coal oil lamp	53
Candle	19
Cigarette	2
Curtain ignited from stove	1
Defective flue	57
Disconnected stovepipe	1
Defective steampipe	1
Defective bake oven	1
Defective boiler	1
Electric wire	29
Explosion of gas range	1
False alarms	57
Fireworks	9
Friction of machinery	3
Gasoline stove	125
Gasoline lamp	9
Gas jet	53
Gasoline	54
Gas meter	1
Grease boiling over	3
Gas pipe	3
Gas stove	3
Gas radiator	1
Hot ashes	18
Hot metal	1
Incendiary	5

Light from stove	1
Lightning	4
Lard boiling over	1
Matches	81
Nicolite paint boiling over	1
Overheated stove	46
Overheated furnace	10
Overheated stovepipe	13
Overheated fireplace	2
Overheated boiler	2
Overheated oven	3
Overheated brick kiln	1
Overheated nut roaster	1
Painters' firepot	1
Purposely set on fire	1
Pulled for preceding fire	7
Rekindling of previous fire	2
Reflection of a coal oil stove	2
Reflection from lantern	1
Steam pipe	3
Sparks	48
Stove pipe disconnected	2
Spontaneous combustion	8
Supposed incendiary	7
Storm	2
Smoking out mosquitoes	1
Soldering pot	1
Torch	1
Tinner's firepot	5
Tar boiling over	2
Thawing water pipe	4
Unknown	440
Unusual smoke	37
Unnecessary alarm	4

FIRES AT WHICH THE LOSS EXCEEDED $5,000.

January 16—Box 348.—Fire originated in the incomplete four-story brick building on Oliver street, near Guilford avenue, owned by C. M. Kemp.

The first alarm was received at 2.40 A.M.

The second alarm was received at 2.48 A.M.

The recall signal was received at 5.30 A.M.

The services of five engine and two hook and ladder companies were required. Cause unknown. Loss $5,665.14.

February 5—Box 441.—Fire originated in the four-story brick building No. 10 N. Charles street, occupied by Sadler's Business College and others, as a school and office building.

The alarm was received at 3.47 A.M.

The recall signal was received at 5.27 A.M.

The services of two engine and two hook and ladder companies were required. Cause unknown. Loss $5,616.03.

February 23—Box 4.—Fire originated in the four-story brick building Nos. 201-209 E. German street, occupied by William Keizer and others, as an office building.

The first alarm was received at 6.21 P.M.

The second alarm was received at 6.31 P.M.

The third alarm was received at 6.32 P.M.

The recall signal was received at 12.40 A.M., February 24.

The services of twelve engine and four hook and ladder companies and the water tower were required. Cause unknown. Loss $11,201.87.

March 8—Box 413.—Fire originated in the three-story brick building No. 112 W. Lexington street, occupied by Charles Land & Co. and others as a lunch-room and ladies' coat factory.

The alarm was received at 3.21 A.M.

The recall signal was received at 5.09 A.M.

The services of four engine and one truck companies were required. Cause unknown. Loss $7,606.

March 8—Box 412.—Fire originated in the five-story brick building No. 12 Hanover street, occupied by Kres & Kandel and others as a hat factory.

The alarm was received at 4.16 P.M.

The recall signal was received at 4.41 P.M.

The services of four engine and two truck companies were required. Cause unknown. Loss $5,424.13.

April 19—Box 464.—Fire originated in the one-story brick building on Carey street, near McHenry street, occupied by Baltimore and Ohio Railroad Company as a blacksmith shop.

The first alarm was received at 1.46 A.M.

The second alarm was received at 1.51 A.M.

The third alarm was received at 1.56 A.M.

The recall signal was received at 4.02 A.M.

The services of seven engine and three hook and ladder companies were required. Caused by defective electric wire. Loss $6,500.65.

May 2—Box 414.—Fire originated in the four-story brick building northwest corner of Baltimore and Howard streets, occupied by The Little Joe Weisenfeld Company as a bicycle and hardware store.

The alarm was received at 10.35 P.M.

The recall signal was received at 1.35 A.M., May 3.

The services of five engine and two truck companies were required. Cause unknown. Loss $13,051.38.

June 9—Box 426.—Fire originated in the two-story brick building on Fayette street, near Carrollton avenue, occupied by the congregation of St. Paul's M. E. Church.

The first alarm was received at 2.29 A.M.

The second alarm was received at 2.36 A.M.

The recall signal was received at 6.46 A.M.

The services of six engine and two truck companies were required. Cause unknown. Loss $12,109.52.

June 11—Box 6.—Fire originated in the four-story brick building No. 211 Water street, occupied by C. C. Bartgis & Bro. as a druggists' supply house.

The first alarm was received at 10.24 P.M.

The second alarm was received at 10.40 P.M.

The recall signal was received at 11.36 A.M., June 12.

The services of five engine and four truck companies were required. Cause unknown. Loss $14,106.27.

June 30—Box 41.—Fire originated in the four story brick building, No. 106 E. Baltimore street, occupied by S. W. Kirk & Son Company as a silverware factory.

The first alarm was received at 9.28 A.M.

The general alarm was received at 9.39 A.M.

The recall signal was received at 3.10 P.M.

The services of eleven engine and four hook and ladder companies were required. Cause, explosion of gasoline. Loss $50,180.36.

July 11—Box 336.—Fire originated in the unfinished brick and stone building on Franklin street, near Howard street, to be occupied as a theatre; owned by James L. Kernan.

The first alarm was received at 4.52 P.M.

The second alarm was received at 4.56 P.M.

The recall signal was received at 7.20 P.M.

The services of eight engine and four hook and ladder companies were required. Cause, gasoline. Loss $20,807.42.

September 15—Box 583.—Fire originated in the three-story brick building, No. 204-210 Clay street, occupied by George Esselman Co. as a picture frame factory.

The alarm was received at 9.46 P.M.

The recall signal was received at 11.54 P.M.

The services of four engine and two hook and ladder companies were required. Cause unknown. Loss $6,113.40.

September 19—Box 415 —Fire originated in the five-story iron and brick building Nos. 332-334 W. Baltimore street, occupied by William Koch Importing Company as a wholesale toy house.

The first alarm was received at 6.44 P.M.

The general alarm was received at 6.46 P.M.

The recall signal was received at 7.53 A.M., September 20.

The services of thirteen engines and five hook and ladder companies and the water tower were required. Cause unknown. Loss $——.

September 20—Box 147.—Fire originated in the three-story brick building corner of Central and Canton avenues, occupied by the Bennett Pottery Company as a pottery.

The first alarm was received at 8.09 P.M.

The second alarm was received at 8.18 P.M.

The recall signal was received at 10.25 P.M.

The services of five engine and two hook and ladder companies were required. Cause unknown. Loss $6,491.17.

December 6—Box 415.—Fire originated in the six-story brick building No. 331 W. Baltimore street, occupied by the Friedenwald Company and others as a printing establishment.

The first alarm was received at 6.37 P.M.

The general alarm was received at 6 42 P.M.

The recall signal was received at 1.02 A.M., December 7.

The services of twelve engine and four hook and ladder companies and the water tower were required. Cause unknown. Loss $——.

December 9—Box 581.—Fire originated in the four-story brick building Nos. 408-410 Jasper street, occupied by the Chloride of Silver Dry Cell Battery Company and others as a battery manufactory.

The first alarm was received at 4.58 A.M.

The second alarm was received at 5.02 A.M.

The third alarm was received at 5.11 A.M.

The recall signal was received at 9.27 A.M.

The services of eleven engine and four hook and ladder companies were required. Cause unknown. Loss $——.

December 12—Box 125.—Fire originated in the four-story brick building Nos. 304-306 Spear's wharf, occupied by the Baltimore Candy Company as a candy factory.

The first alarm was received at 8.35 P.M.
The second alarm was received at 8.42 P.M.
The third alarm was received at 9.21 P.M.
The recall signal was received at 10 A.M., December 13.

The services of thirteen engine and five hook and ladder companies were required. Cause unknown. Loss $——.

December 15—Box 413.—Fire originated in the seven-story brick building Nos. 107-111 W. Fayette street, occupied by Gans Bros. & Co. and others as an umbrella factory and carriage repository.

The first alarm was received at 7.35 P.M.
The second alarm was received at 7.40 P.M.
The third alarm was received at 7.44 P.M.
The recall signal was received at 8.45 A.M., December 16.

The services of thirteen engine and four hook and ladder companies and the water tower were required. Cause unknown. Loss $——.

December 21—Box 248.—Fire originated in the three-story brick building corner Holliday and Centre streets, occupied by C. W. Dickerson, receiver Henry McShane Manufacturing Company, as plumbers' supplies manufactory.

The first alarm was received at 12.35 A.M.
The second alarm was received at 12.42 A.M.
The third alarm was received at 12.49 A.M.

The services of thirteen engine and five hook and ladder companies were required. Cause unknown. Loss $——.

December 23—Box 173.—Fire originated in the three-story brick building No. 2411 Eastern avenue, occupied by the Maryland Macaroni Works as a macaroni factory.

The first alarm was received at 7.45 P.M.

The second alarm was received at 7.51 P.M.

The third alarm was received at 7.56 P.M.

The recall signal was received at 10.22 P.M.

The services of six engine and two hook and ladder companies were required. Cause, overheated stove. Loss $——.

December 27—Box 158.—Fire originated in the tugboat "Alert," in the harbor at foot of Caroline street, owned by the Maryland Dredging Company.

The alarm was received at 5.26 A.M.

The recall signal was received at 7.18 A.M.

The services of four engine and one truck companies were required. Cause unknown. Loss $——.

FIRES AT WHICH RESCUES WERE MADE.

February 4—Box 4 at 6.21 P.M.—Five-story brick office building.

Charles E. Williams, age 17 years, whose escape had been cut off by flames and smoke, was rescued from the burning building by Lieutenant George E. McNeil, of No. 1 Hook and Ladder Company, by means of a 35-foot ladder.

April 30, 1903—Box 446 at 12.52 A.M.—Three-story brick store and dwelling.

Miss T. E. Brown, Miss Elsie Schelhaus and Mrs. Mary Taylor, occupants of the building, whose escape had been cut off by flames and smoke, were taken from the third floor front room by means of a 35-foot ladder by Lieutenant James McCarron and Ladderman C. E. Donahoo, who were assisted by the other members of No. 2 Hook and Ladder Company.

FIRES WHICH WERE ATTENDED BY LOSS OF LIFE

January 9—Box 241 at 5.13 P.M.—Agnes Byron, age 68 years, No. 838 Hillen street, was fatally burned to death; caused by the explosion of a coal oil stove.

April 11—Box 243 at 9.14 A.M.—Harry Goldstein, age 7 years, No. 626 Stirling street, was fatally burned, and died at St. Joseph's Hospital; caused by the explosion of a gasoline stove.

May 21—Box 464 at 10.21 A.M.—Annie E. Fitzmaurice, age 32 years, No. 213 Woodyear street, was fatally burned on body and face, was removed to the Franklin Square Hospital, and died at 6.30 P.M.

September 13—Silent at 9.55 A.M.—Martha McMahon, age 60 years, 219 W. Mulberry street, was fatally burned on body while attempting to light a fire with gasoline, and died at the Maryland General Hospital.

September 29—Box 326 at 12.53 P.M.—Annie Robinson, colored, age 3½ years, 1631 Pennsylvania avenue, was suffocated by smoke, and found under a chair by members of No. 13 Engine Company; caused by explosion of a coal oil lamp.

October 11—Box 253 at 6.23 P.M.—Mrs. Emma Burger, age 53 years, 1224 Aisquith street, was burned to death while trying to extinguish a fire caused by the upsetting of a coal oil stove.

November 2—Box 48 at 4.55 P.M.—Mrs. Laura Schmidt, age 50 years, No. 219 Bentalou street, fatally burned on body, and died at 8.45 A.M., November 3, after being removed to the Franklin Square Hospital; caused by the explosion of a gasoline stove.

December 12—Silent at 1.30 P.M.—Miss Ida Shellinger, age 16 years, No. 1551 N. Fulton avenue, was fatally burned on body, and died after being removed to the Homeopathic Hospital; caused by falling against a coal oil stove in an epileptic fit.

December 21—Box 248 at 12.35 A.M.—Andrew J. Byrnes, age 66 years, who was employed as a watchman for the Henry McShane Manufacturing Company, Holliday and Centre streets, was found at 9 o'clock A.M. by members of No. 4 Hook and Ladder Company.

TABLES.

CASUALTIES.

Company.	Position.	Name.	Date of Injury.	Box.	Time Off Duty.	Nature of Injury.
No. 1 Engine.....	Pipeman	Milton Montgomery.....	Oct. 17	In quarters.	7⅔ days.	Injured bone in left foot by horse.
" 1 "	Probationer	John L. Smith	Nov. 6	In quarters.	6 days.	Thumb on right hand cut by glass.
" 2 "	Pipeman	William H. Bell	Feb. 23	4	2½ days.	Overcome by illuminating gas.
" 2 "	Pipeman	Walter Filling	April 11	634	50¼ days.	Third finger on left hand amputated.
" 2 "	Hostler.....	Frank Hines.....	Aug. 27	In quarters.	14 days.	Sprained muscles of back by horse falling on him.
" 2 "	Lieutenant.....	Francis Heusman.....	Dec. 3	548	26⅔ days.	Sprained left ankle.
" 3 "	Engineman.....	Joseph P. Whalen.....	Jan. 22	Stepping off car	2 days.	Right ankle sprained.
" 3 "	Pipeman	Arthur G. Harrison.....	Aug. 5	In quarters.	20 days.	Crab bite, left forefinger.
" 4 "	Pipeman	A. L. Frederick.....	Sept. 1	Silent.	3 days.	Burned on right wrist.
" 4 "	Pipeman	B. B. Guthrie.....	Dec. 12	125	5⅓ days.	Overcome by smoke.
" 5 "	Pipeman	Anthony Schoepplein.....	April 4	Silent.	4 days.	Neck and shoulder bruised.
" 5 "	Pipeman	H. Burkhart.....	Sept. 21	147	38 days.	Injured left knee.
" 5 "	Pipeman	J. E. Haskell	Dec. 6.	891	10½ days.	Left foot contused.
" 6 "	Pipeman	Charles Hesse.....	Dec. 6.	In quarters.	52⅜ days.	Stomach and right arm scalded.
" 6 "	Pipeman	George Yurek.....	Mar. 5.	In street.	1 7/15 days.	Right foot sprained.
" 7 "	Pipeman	Wm. H. Chester.....	Jan. 21.	33	26 hours.	Face and neck burned.
" 7 "	Pipeman	F. A. Haskell.....	Feb. 9.		4 days, 11 hrs	Right ankle sprained.
" 7 "	Pipeman	Wm. Manner	Aug. 19.		18 days, 17 hrs	Left thumb cut.
" 7 "	Pipeman	Wm. Manner	Dec. 20.		3 days, 10 hrs.	Nose cut.

No. 8 Engine	Pipeman	James DePuey	Feb. 21.	423	37 days.	Sprained knee.
" 8 "	Pipeman	James Welch	Mar. 21.		17 days.	Sprained finger, exercising horses.
" 8 "	Pipeman	James Welch	June 30.	41	7 days.	Ruptured blood vessel of eye.
" 10 "	Pipeman	James McGlennen	Mar. 1.	525	31 days.	Two toes on right foot mashed.
" 11 "	Pipeman	A. A. Albert	Sept. 21.	147	21⅔ days.	Dislocation of left shoulder.
" 12 "	Pipeman	R. T. Forsyth	Oct. 3.	541	9⅙ days.	Lacerated nose and contused left eye.
" 12 "	Engineman	J. I. Cranford	Oct. 17.	Off duty.	18⅙ days.	Sprained left ankle.
" 14 "	Asst. Engineman.	W. E. Koontz	Dec. 11.	452.	2 days.	Contusion of left leg.
" 15 "	Probationer	Samuel Griffith	Aug. 10.	In quarters.	10 days.	Contused left knee.
" 15 "	Pipeman	Wm. Kimball	Sept. 22.	In quarters.	12⅚ days.	Three mashed toes on right foot.
" 15 "	Asst. Engineman.	Jacob Buckey	Sept. 24.	In quarters.	25⅓ days.	Dislocated shoulder.
" 15 "	Pipeman	Wm. Kimball	Nov. 1.	In quarters.	10⅙ days.	Running nail in left foot.
" 15 "	Pipeman	Albert Oelman	Dec. 6.	415.	25 days.	Shocked by electric wire.
" 15 "	Probationer	Louis Streb	Dec. 26.	In quarters.	5 days.	Running nail in right foot.
" 16 "	Asst. Engineman.	Wm. L. Sbisa	Feb. 20.	In quarters.	17⅜ days.	Scalding left hand and arm.
" 16 "	Asst. Engineman.	Robert R. Higgins	June 8.	On boat.	18⅔ days.	Right hand bruised.
" 16 "	Asst. Engineman.	Wm. L. Sbisa	June 22.	On boat.	28⅔ days.	Left hand lacerated.
" 17 "	Pipeman	Jas. Catterton	June 27.	In quarters.	13½ days.	Stuck prong of pitchfork in left instep.
" 18 "	Pipeman	Wm. Richter	Dec. 28.	358.	3½ days.	Burning of entire face.
" 19 "	Asst. Engineman.	Jacob S. Corns	July 6.	In quarters.	43½ days.	Septic infection on second finger of right hand by splinter while splitting wood.

CASUALTIES.—Continued.

Company.	Position.	Name.	Date of Injury.	Box.	Time Off Duty.	Nature of Injury.
No. 19 Engine	Pipeman	Wm. H. Cuddy	Nov. 19.	In quarters.	3¾ days.	Incised wound on right arm, being cut with a saw accidentally.
" 20 "	Pipeman	Charles Sapp	Oct. 6.	In quarters.	2½ days.	Contusion of left arm and back, caused by falling in doorway of quarters.
" 21 "	Hostler	Joseph Presley	Feb. 21.	719	3⅓ days.	Cut on right leg, face and right hand.
" 21 "	Substitute	Michael Ward	Dec. 27	In quarters.	4 days.	Broken rib on right side and right leg injured by falling down pole hole.
" 22 "	Hostler	Fredk. W. Viehmeyer	April 3.	168	8⅝ days.	General bruising and sprained ankle.
" 22 "	Pipeman	Edward Kreager	Dec. 23.	173	8 days.	Struck in right eye with stream of water.
" 24 "	Pipeman	Edw. A. Fitzgerald	Aug. 14.	257	56 days.	Fracture of ankle.
" 25 "	Hostler	Oliver K. Drury	Nov. 25.	In quarters.	5 days.	Lacerated right foot.
" 1 Hook and Ladder.	Captain	Robert R. Perry	Dec. 17.	223	11⅓ days.	Injured back.
" 1 " " "	Tillerman	Geo. W. Haskell	April 8.	146	13 days.	Contusion of leg.

No.	1 Hook and Ladder	Ladderman	Chas. P. Crass	Dec.	12	125	$5\frac{7}{12}$ days.	Right hand injured.
"	2 " " "	Ladderman	Frank Lauber, Jr	Sept.	22.	In front of quarters.	$6\frac{3}{4}$ days.	Left ear lacerated.
"	2 " " "	Ladderman	Robert E. O'Keefe	Dec.	15.	413	$2\frac{1}{4}$ days.	Left shoulder sprained.
"	3 " " "	Ladderman	Joseph M. Diggs	July	27.	At his home.	20 days.	Burned left arm.
"	3 " " "	Ladderman	Robt. J. Thompson	Aug.	5.	In quarters.	$55\frac{5}{6}$ days.	Fistula.
"	3 " " "	Act'g Ladderman.	Conrad Brocklander	Aug.	29.	In quarters.	$93\frac{1}{6}$ days.	Fractured left knee cap.
"	6 " " "	Ladderman	Jos. Neubert.	Mar.	9.	62	$5\frac{5}{8}$ days.	Burned heel.
"	6 " " "	Captain	Paul Linde.	April	11.	542	6 days.	Sprained knee.
"	6 " " "	Ladderman	Jas. Nash	Sept.	12.	Holiday (Day).	$37\frac{3}{4}$ days.	Sprained ankle.
"	9 " " "	Ladderman	James M. Ford	Nov.	26.	In quarters. 639	2 days.	Injured inguinal gland sliding down pole.
"	10 " " "	Ladderman	Wm. S. Fort.	Sept.	15.	363	44 days.	Contusion of back; lacerated scalp; eighth rib fractured.

ROSTER OF THE DEPARTMENT

AND

LOCATION OF COMPANIES.

1903.

OFFICERS.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Horton.....	57	Mar. 1, 1862...	Chief Engineer...	404 Colvin street.....	Wireworker.
James A. Campbell.....	39	Jan. 16, 1894 ..	1st Dist. " ...	525 N. Paca street	Stonecutter.
August Emrich.....	41	June 13, 1884...	2d " " ...	2313 York road	Coal dealer.
Frederick Branan.....	56	April 21, 1879	3d " " ...	324 W. Twenty-first st....	Harnessmaker.
Fielding H. Lucas.....	52	April 1, 1881...	4th " " ...	1013 N. Arlington avenue.	Typefounder.
Levin H. Burkhardt.....	36	Nov. 3, 1890...	5th " " ...	1252 Barclay street..... ...	Carpenter.
E. Louis Shipley.....	43	July 1, 1891...	6th " " ...	1819 Druid Hill avenue....	Shoemaker.
Thomas H. Meushaw. ..	47	May 1, 1885...	Supt. Machinery..	2204 E. Lombard street ...	Machinist.

No. 1 ENGINE COMPANY.—Located on Paca street, north of Fayette street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James T. Dunn.....	43	April 1, 1890...	Captain.....	873 W. Fayette street ...	Iron moulder.
Charles E. Rice.....	34	April 15, 1893...	Lieutenant	1633 W. Lexington street.	Packer.
John Stanton.....	39	Mar. 1, 1895...	Engineman	2206 E. Lombard street...	Boilermaker.
C. P. Kuhan, Jr.	25	July 5, 1901...	Asst. Engineman.	1906 Hollins street.....	Machinist.
Louis J. Fresch.....	60	Nov. 29, 1872...	Hostler	507 N. Schroeder street.	Carpenter.
George L. Schlimm.....	42	April 1, 1888...	Pipeman	231 S. Bond street	Boxmaker.
William F. Feeney.....	25	July 15, 1901...	"	1436 Riverside avenue ..	Boilermaker.
Milton Montgomery.....	25	Nov. 23, 1900...	"	121 N. Paca street	Electrician.
Frank Steineman.....	24	April 3, 1902...	"	1601 W. Pratt street.....	Electrician.
James J. Lacey.....	25	Feb 15, 1902...	"	1723 Bird street.....	Fireman.
John L Smith.....	22	Aug. 5, 1903...	"	2501 W. Fayette street.....	Packer.
Joseph E. Watts.....	25	Nov. 18, 1903...	Probationer	202 N. Monroe street.....	Bricklayer.

No. 2. ENGINE COMPANY.—Located on Barre street, near Sharp street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry Stagge	38	July 1, 1891	Captain	1117 Bowen street	Iron moulder.
Francis Heusman	29	Mar. 19, 1898	Lieutenant	919 Ramsay street	Flyman.
Thomas S. Atkinson	53	Aug. 5, 1881	Engineman	226 N. Monroe street	Machinist.
Daniel H. Weber	43	Aug. 1, 1889	Asst. Engineman.	23 W. Hill street	Machinist.
Frank Hines	39	April 30, 1890	Hostler	936 S. Sharp street	Tinner.
William H. Bell	47	May 22, 1894	Pipeman	1142 Cleveland street	Blacksmith.
Edward Tauber	37	Jan. 1, 1890	"	21 W. Hill street	Driver.
John J. Schlag	37	Nov. 27, 1897	"	1146 Scott street	Iron moulder.
Charles H. Baker	51	Dec. 15, 1880	"	1728 Hollins street	Scalemaker.
George W. Stewart	29	Dec. 15, 1897	"	1141 S. Sharp street	Laborer.
Walter Filling	28	Oct. 5, 1898	"	616 Clinton avenue	Hostler.
George D. Shanks	46	Dec. 15, 1896	"	1111 W. Cross street	Shoemaker.

No. 3 ENGINE COMPANY.—Located at Lombard street, near High street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
August Schlimm	38	April 1, 1890	Captain	305 S. Central avenue	Driver.
Louis Buehler	31	Jan. 27, 1897	Lieutenant	1620 N. Washington street	Blacksmith.
Joseph P. Whalen	38	July 28, 1896	Engineman	116 S Ann street	Machinist.
George G. Battersly	29	Sept. 1, 1903	Asst. Engineman.	2721 Fait avenue	Marine engineer.
James Radford	39	March 9, 1897	Hostler	1712 E Lanvale street	Driver.
Herman Fumbaugh	45	April 1, 1888	Pipeman	410 N. Wolfe street	Driver.
Arthur G. Harrison	31	June 3, 1897	"	2132 Orleans street	Plumber.
John Grasmick	30	Dec. 24, 1896	"	2003 Bank street	Carpenter.
Henry Miller	29	Nov. 23, 1900	"	905 Columbia avenue	Driver.
Charles Edwards	31	June 1, 1898	"	1837 E. Chase street	Brakeman.
William H. Kirwan	27	June 21, 1900	"	216 N. Collington avenue	Plumber.
Frank Gray	26	Dec. 2, 1903	Probationer	302 N. Mount street	Soldier.

No. 4 ENGINE COMPANY.—Located on Lexington street, west of North Street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Lawrence Pistel	53	May 1, 1873	Captain	1544 Argyle avenue	Cigarmaker.
William Lamb	41	Aug. 7, 1894	Lieutenant	1117 N. Carrollton avenue.	Car driver.
John J. Cahill	39	Feb. 15, 1893	Engineman	221 N. Mount street	Machinist.
John J. Carr	36	July 30, 1903	Asst. Engineman.	403 S. Eden street	Marine engineer.
George J. Hamilton	28	Dec. 15, 1897	Hostler	1711 E. Madison street	Driver.
Constant Siebert	50	April 5, 1883	Pipeman	1636 E. Fayette street	Driver.
Henry F. Boerner	43	Mar. 1, 1895	"	718 E. Biddle street	Tinsmith.
George A. Ford	44	May 1, 1896	"	1610 Ruskin avenue	Clerk.
Bankard B. Guthrie	29	June 22, 1900	"	503 N. Chester street	Plasterer.
John P. Weinknecht	26	Aug. 3, 1901	"	2306 E. Fayette street	Bricklayer.
Thomas M. Farrell	23	Oct. 15, 1902	"	611 Mosher street	Driver.
James C. Downs	22	Oct. 1, 1903	"	1627 E. Monument street.	Hospital orderly
John H. Liedlich	22	Aug. 4, 1903	Probationer	1632 N. Gay street	Car conductor.

No. 5 ENGINE COMPANY.—Located on Ann street, near Gough street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry C. Dotter	39	May 30, 1896	Captain	1016 Chesapeake street	Stove moulder.
Charles Rosenthal	46	Oct. 1, 1890	Lieutenant	2227 Gough street	Carpenter.
Fred. L. Nelson	56	Dec. 1, 1874	Engineman	121 N. Milton avenue	Machinist.
John M. Foard	33	Dec. 15, 1897	Asst. Engineman.	500 N. Washington st	Machinist.
Anthony Porcella	25	Dec. 1, 1900	Hostler	103 S. Ann street	Driver.
Henry R. Seippel	54	Dec. 1, 1874	Pipeman	103 S. Ann street	Barber.
Anthony Schoepplein	48	June 24, 1891	"	311 S. Regester street	Cooper.
Henry Fureschi	23	Jan. 20, 1903	"	529 S. Sharp street	Gasfitter.
Andrew W. German, Jr.	29	Oct. 1, 1902	"	153 Milton avenue	Clerk.
Alonzo Nickum	34	Feb. 23, 1900	"	222 S. Wolfe street	Bricklayer.
Joseph L. Haskell	23	July 1, 1903	"	1246 N. Gay street	Woodcarver.

No. 6 ENGINE COMPANY.—Located at Gay and Ensor streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles Betz	51	Sept. 4, 1885	Captain	426 Colvin street	Shoemaker.
Frederick C. Weiss	30	Oct. 1, 1896	Lieutenant	312 S. Wolfe street	Machinist.
Matthew Mulligan	64	Oct. 8, 1870	Engineman	1027 Valley street	Machinist.
Thomas H. Sutton	33	Jan. 1, 1895	Asst. Engineman.	433 E. Lanvale street	Motorman.
Charles L. Schulte	45	Nov. 10, 1892	Hostler	639 S. Paca street	Butcher.
Frederick H. Kaufman.	31	Sept. 1, 1895	Pipeman	2000 E. Madison street	Carriagesmith
Gustave Miller	31	Mar. 1, 1895	"	507 N. Bond street	Hostler.
Charles Hesse	35	Nov. 3, 1897	"	1126 E. Lombard street	Shoemaker.
Frederick W. Harman	39	Aug. 31, 1892	"	417 Mott street	Brassfinisher.
George Yurek	30	Mar. 13, 1899	"	121 Regester street	Brassfinisher.
Henry Meil	31	Dec. 15, 1896	"	301 S. Central avenue	Carpenter.
John J. Eslinger	28	Mar. 25, 1903	"	126 Baxter street	Barber.

No. 7 ENGINE COMPANY.—Located at Eutaw street and Druid Hill avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. B. Bortell	38	Sept. 7, 1888	Captain	216 N. Luzerne street	Ship rigger.
J. A. McKew	36	April 1, 1893	Lieutenant	2042 E. Preston street	Machinist.
Wm. F. Welsh	40	May 28, 1893	Engineman	1642 S. Charles street	Machinist.
J Lohnes	29	Jan. 1, 1903	Asst. Engineman.	2231 Orleans street	Marine engineer.
H. Schiminger	49	April 1, 1890	Hostler	885 W. Fayette street	Hostler.
Wm. H. Chester	39	July 21, 1899	Pipeman	1022 Bloomingdale road	Hostler.
Wm. H. Perrine	36	Dec. 11, 1896	"	928 Argyle avenue	Salesman.
F. A Haskell	32	April 15, 1902	"	430 Colvin street	Bottler.
J. Watson	30	Dec. 15, 1897	"	841 S. Paca street	Carpenter.
Wm. Manner	35	Oct. 1, 1902	"	1824 Hanover street	Laborer.
Jas. McGlennen	41	Oct. 1, 1888	"	1041 W. Mulberry street	Moulder.
Wm. Davis	26	Aug. 5, 1903	Probationer	521 N. Howard street	Hostler.

No. 8 ENGINE COMPANY.—Located on Mulberry street, near Arlington avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William J. Stewart	52	Mar. 26, 1875	Captain	424 N. Arlington avenue.	Tinner.
James Nolan	32	May 20, 1893	Lieutenant	221 N. Fremont avenue.	Collarmaker.
Charles E. Freburger	55	June 1, 1875	Engineman	1202 W. Franklin street	Machinist.
Charles A. Litchfield	29	Dec. 15, 1897	Asst. Engineman.	226 S. Mount street	Machinist.
Edward A. Ward	31	Mar. 1, 1895	Hostler	658 Columbia avenue	Driver.
Charles Airey	51	Oct. 11, 1883	Pipeman	205 N. Mount street	Cigarmaker.
William Eckert	45	April 15, 1887	"	1033 W. Mulberry street	Brushmaker.
James A. DePuey	45	Oct. 1, 1897	"	1931 W. Lanvale street	Paperhanger.
John Weinkamp	36	April 14, 1891	"	655 W. Mulberry street	Cigarmaker.
William J. Watkins	41	Aug. 2, 1895	"	625 N. Payson street	Cotton inspector.
James S. Welch	31	Jan. 23, 1901	"	710 N. Calhoun street	Bookkeeper.

No. 9 ENGINE COMPANY.—Located at Madison and McDonogh streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Samuel R. Watkins	48	July 26, 1890	Captain	284 Harford road	Sailmaker.
Michael Ready	34	May 30, 1896	Lieutenant	1506 N. Eden street	Woodworker.
Daniel Rogers	56	Feb. 1, 1872	Engineman	1505 E. Madison street	Machinist.
Edward McCullough	45	May 26, 1896	Asst. Engineman.	1737 E. Lombard street	Machinist.
Frisby Lloyd	42	Dec. 11, 1896	Hostler	729 N. Chester street	Canmaker.
John Amend	42	Oct. 17, 1892	Pipeman	1729 E. Preston street	Boxmaker.
Richard Pittinger	54	April 1, 1880	"	1835 Jefferson street	Carpenter.
Frank Smith	29	April 1, 1897	"	2426 E. Fayette street	Can capper.
John Gordon	29	Aug. 10, 1895	"	1713 E. Eager street	Soap presser.
Emil Kadan	23	July 1, 1903	"	1908 E. Madison street	Tailor.
John Walsh	30	Aug. 5, 1903	"	130 Milton avenue	Boilermaker.
Bernard Weiss	29	Nov. 20, 1903	Probationer	2007 Gough street	Clerk.

No. 10 ENGINE COMPANY.—Located on Columbia avenue, near Poppleton street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Smith	46	May 12, 1890	Captain	903 Columbia avenue	Gasfitter and pl'mb'r
Harry W. Rice	31	Jan. 10, 1899	Lieutenant	810 Columbia avenue	Clerk.
John W. Walsh	53	Mar. 4, 1876	Engineman	1115 W. Baltimore street	Machinist.
George C. Lloyd	35	Feb. 19, 1893	Asst. Engineman.	1213 W. Cross street	Machinist.
Joseph W. Moon	52	Aug. 11, 1877	Hostler	1444 Covington street	Hostler.
Justice G. eilholtz	57	Dec. 1, 1874	Pipeman	896 W. Lombard street	Mantel setter.
John Eigenbrodt	42	Jan. 12, 1891	"	1134 Bowen street	Woodcarver.
Thomas Kerr	40	Aug. 31, 1902	"	1221 Columbia avenue	Clerk.
Edgar B. McKnew	28	May 19, 1899	"	419 S. Poppleton street	Horseshoer.
Giles J. O'Brien	29	Aug. 1, 1902	"	810 Scott street	Moulder.
Charles H. Hamilton	29	Mar. 12, 1903	"	1500 Marshall avenue	Motorman.
Charles Stroheker	25	Nov. 19, 1903	Probationer	12 Marriott street	Hair spinner.

No. 11 ENGINE COMPANY—Located S. E. corner of Eastern and Patterson Park avenues.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Michael A. Lind	42	July 13, 1887	Captain	505 S. Patterson Park av.	Painter.
Thomas Flaherty	43	Jan. 29, 1892	Lieutenant	2115 Bank street	Pilot.
John Calder	56	Oct. 8, 1870	Engineman	422 S. Patterson Park av	Machinist.
John H. Liebig	34	July 1, 1903	Asst. Engineman.	2011 Eastern avenue	Fireman and Oiler.
Patrick H. Birthistle	36	Feb. 14, 1893	Hostler	7 N. Patuxent street	Driver.
John W. Barton	39	June 7, 1892	Pipeman	311 S. Collington avenue.	Moulder.
Philip Peacock	45	Mar. 1, 1895	"	608 S. Washington st	Tinner.
A. H. Gier	49	April 1, 1879	"	1913 E. Lombard street	Painter.
Joshua H. Miller	47	Nov. 10, 1885	"	3015 Fait avenue	Cigarmaker.
Andrew A. Albert	38	April 6, 1895	"	514 S. Montford avenue	Hostler.
Herman Mattes	31	July 15, 1901	"	606 S. Rose street	Laborer.
Edward Stanton	29	Aug. 5, 1903	Probationer	614 S. Ann street	Iron Moulder.

No. 12 ENGINE COMPANY.—Located at Fort and Riverside avenues.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. R. Miller	33	Mar. 1, 1895	Captain	3532 Chestnut avenue	Carpenter.
A. A. Torney	39	May 11, 1897	Lieutenant	127 Parkin street	Butcher.
J. I. Cranford	34	Feb. 15, 1893	Engineman	121 W. Barre street	Machinist.
C. A. Fraser	38	Mar. 28, 1898	Asst. Engineman.	1208 W. Lombard street	Machinist.
G. L. Krausz	36	Dec. 15, 1897	Hostler	1434 Marshall avenue	Brushmaker.
Peter McGonigle	43	Jan. 15, 1890	Pipeman	1265 Riverside avenue	Cotton sampler.
J. P. McKenna	32	Dec. 5, 1895	"	16 E. Beverly street	Hardwood finisher.
R. T. Forsyth	36	Feb. 24, 1899	"	1429 William street	Tinner.
C. H. Wheatley	44	Feb. 22, 1896	"	1725 Covington street	Boilermaker.
C. P. Griffin	51	Dec. 11, 1896	"	1103 Carroll street	Salesman.
F. G. Groth	27	Feb. 1, 1902	"	1741 Clarkson street	Printer.

No. 13 ENGINE COMPANY.—Located at Fremont and Myrtle avenues.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George C. Young	51	Mar. 31, 1891	Captain	1301 N. Mount street	Tinner.
Wilbur Pearce	46	Oct. 5, 1882	Lieutenant	1203 Winchester street	Moulder.
John W. Eckhardt	35	Aug. 5, 1890	Engineman	878 W. Fayette street	Machinist.
Robert F. Ellers	33	Aug. 28, 1903	Asst. Engineman.	621 N. Payson street	Machinist.
John F. Mackenzie	56	Feb. 8, 1889	Hostler	386 Waverly avenue	Car driver.
Clifton Hedley	31	April 8, 1897	Pipeman	1304 Mosher street	Painter.
Wade H. Jones	27	Nov. 23, 1900	"	1625 N. Wolfe street	Driver.
Louis F. Dorsey	24	Sept. 5, 1901	"	1341 Mosher street	Clerk.
Guy E. Hieatzman	29	Feb. 1, 1902	"	1817 Baker street	Butcher.
Harry C. Grimes	34	June 4, 1897	"	847 W. Lexington street.	Machinist.
John C. Stolte	35	Mar. 5, 1903	"	2818 W. Lafayette ave	Laborer.
John F. Paul	27	Sept. 27, 1903	Probationer	2006 Wilhelm street	Laborer.

No. 14 ENGINE COMPANY.—Located on Hollins street, near Monroe street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. F. Rupp	46	June 29, 1888	Captain	2108 Hollins street	Plasterer.
W. C. D. Knight	35	July 10, 1894	Lieutenant	2031 Hollins street	Driver.
John Gaffney	48	April 1, 1880	Engineman	1925 Hollins street	Machinist.
W. E. Koontz	33	July 13, 1901	Asst. Engineman.	853 N. Eutaw street	Machinist.
Joseph Lavender	56	Mar. 17, 1876	Hostler	1808 W. Saratoga street	Driver.
Leonard Jessop	48	July 1, 1892	Pipeman	1803 Frederick avenue	Plasterer.
G. H. Mills	29	Oct. 19, 1898	"	2140 Hollins street	Driver.
W. A. Hummel	29	Nov. 23, 1900	"	435 E. Madison street	Candymaker.
T. F. Murphy	27	June 15, 1902	"	46 S. Fulton avenue	Clerk.
G. S. Upperco	22	July 1, 1903	"	1805 Hollins street	Clerk.
J. E. McDonnell	27	June 15, 1902	"	132 S. Gilmor street	Clerk.

No. 15 ENGINE COMPANY.—Located on Lombard street, between Howard and Eutaw streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Kahl	34	Feb. 1, 1894	Captain	1004 Light street	Driver.
Frank J. Lavender	32	July 9, 1895	Lieutenant	247 Pearl street	Laborer.
John A. Herr	32	Nov. 20, 1895	"	2112 E. Lombard street	Clothing cutter.
William F. Awalt	42	April 1, 1890	Engineman	312 N. Poppleton street	Machinist.
John J. McCully	37	June 6, 1901	Asst. Engineman.	1521 Covington street	Boilermaker.
Jacob M. L. Buckey	42	Oct. 5, 1898	Asst. Engineman.	542 S. Paca street	Machinist.
Mark Hill	50	April 1, 1890	Hostler	643 N. Schroeder street	Tinner.
William E. Stewart	34	Nov. 15, 1893	Pipeman	433 N. Exeter street	Iron moulder.
Guy S. Ellis	41	July 1, 1898	"	345 S. Stricker street	Wagon finisher.
George C. Weber	27	Nov. 23, 1900	"	1106 S. Paca street	Clerk.
John Flynn	25	June 7, 1901	"	1805 Ramsay street	Moulder.
William Kimball	34	Mar. 1, 1895	"	101 Roseland avenue	Paperhanger.
Charles Heinbock	34	July 7, 1901	"	413 N. Fremont street	Salesman.
Frank Doerer	39	Mar. 1, 1895	"	111 N. Durham street	Driver.
John Luckhardt	32	Feb. 21, 1900	"	1524 Boyle street	Canmaker.
Albert Oelman	39	July 1, 1888	"	627 W. Saratoga street	Blacksmith.
Harry Showacre	35	June 14, 1902	"	1938 Hollins street	Carpenter.
Israel Appleby	51	Dec. 13, 1896	"	52 Garrison lane	Driver.
Daniel Marcks	25	Feb. 1, 1901	"	1523 Myrtle avenue	Railroad fireman.
Eugene Short	36	June 7, 1901	"	325 W. Biddle street	Hostler.
William Otto	26	Aug. 5, 1903	"	809 N. Patterson Park av	Dyer.
Jacob Kirkwood	29	Aug. 4, 1903	Probationer	138 E. Cross street	Huckster.
John F. Joyce	32	Aug. 4, 1903	"	1727 Covington street	Tin examiner.
Louis Streb	35	Aug. 4, 1903	"	1629 Northwest street	Stonecutter.
George A. Lenz	24	Aug. 4, 1903	"	1368 Stockton street	Gasfitter.
John G. Geiger	32	Oct. 1, 1903	"	1221 Wall street	Driver.

No. 16 ENGINE COMPANY.—Located at Commercial Wharf.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew W. German, Sr.	54	June 1, 1872...	Captain	153 N. Milton avenue	Painter.
Louis Harrer	46	Dec. 19, 1892..	Lieutenant	227 S. Caroline street	Wharf builder.
Iverson J. Moon	49	Oct. 15, 1897...	Pilot	1507 N. Wolfe street	Pilot.
Young D. Griffis	35	June 24, 1903...	Pilot	110 W. Clement street	Pilot.
William T. Hubbard	45	Dec. 7, 1893...	Engineman	324 S. Patterson Park av.	Marine engineer.
William L. Sbisa	40	July 28, 1896...	Asst. Engineman.	305 N. Caroline street	Marine engineer.
Robert R. Higgins	28	May 13, 1899...	Asst. Engineman.	138 N. Collington avenue	Marine engineer.
James H. Hoey	56	July 1, 1891..	Stoker	218 S. Castle street	Stoker.
Joseph F. Daly	25	May 17, 1899...	"	708 Aisquith street	Clerk.
John T. Seabreeze	59	Feb. 5, 1893...	"	125 S. Ann street	Painter.
William H. Siebert	41	Oct. 1, 1897...	Pipeman	2408 Fait avenue	Stevedore.
William P. Burke	39	Mar. 1, 1895...	"	2038 Eastern avenue	Boilermaker.
Daniel V. O'Sullivan	28	Nov. 18, 1903 ..	Probationer	1208 Greenmount avenue.	Clerk.

No. 17 ENGINE COMPANY.—Located at N. E. corner of Fort avenue and Haubert street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Prenger	51	April 15, 1890..	Captain	1411 Hull street	Machinist.
Edward C. Klessel.	51	Feb. 11, 1882...	Lieutenant	1442 Riverside avenue	Gilder.
Charles T. Taylor	29	June 1, 1898...	Engineman	1512 Hanover street	Machinist.
Lawrence T. Rudolph	31	Mar. 1, 1895...	Asst Engineman.	405 E. Clement street	Machinist.
Casper Kraft	44	Dec. 9, 1892...	Hostler	417 Folsom street	Driver.
James Catterton	55	Oct. 23 1886...	Pipeman	1460 William street	Painter.
John Moeller	37	Oct. 13, 1893...	"	1380 E. Fort avenue	Packer.
Thomas Voyce	44	April 7, 1890...	"	529 E. Fort avenue	Boilermaker.
Frank A. Kraft.	34	July 7, 1894...	"	1426 Marshall street	Painter.
Peter Lohmann	46	May 1, 1896...	"	604 Clement street	Laborer.
James J. Knox	44	May 6, 1895...	"	1441 Decatur street	Laborer.
Joseph Neubert	52	Mar. 1, 1895...	"	1364 Andre street	Electrician.

No. 18 ENGINE COMPANY.—Located on Twenty-first street, near Maryland avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John H. Morgan	53	Nov. 20, 1872	Captain	327 E. Twenty-first st.	Paperhanger.
Wm. H. Quincy	48	Feb. 1, 1893	Lieutenant	334 E. Lafayette avenue.	Marblecutter.
Thomas S. Brown	44	Aug. 1, 1886	Engineman	122 W. Twenty-fourth st.	Machinist.
Elijah J. B. Moore	40	Mar. 1, 1895	Asst. Engineman	1306 Valley street	Machinist.
John W. Potts	46	June 1, 1888	Hostler	2556 Oak street	Driver.
Robert H. Blatchley	33	Feb. 14, 1893	Pipeman	435 Oxford avenue	Painter.
James J. Reynolds	44	July 20, 1889	"	431 Roland avenue	Driver.
Howard R. Waite	30	Jan. 7, 1901	"	2647 Maryland avenue	Painter.
Ralph J. Hill	37	Aug. 19, 1899	"	402 W. Twenty-third st.	Laborer.
Wm. T. Newell	30	June 7, 1901	"	1325 Greenmount avenue.	Motorman.
William T. Richter	24	Mar. 6, 1903	"	23 Gorsuch avenue	Driver.
John Wieland	34	June 6, 1903	"	2636 Hampden avenue	Driver.

No. 19 ENGINE COMPANY.—Located at East North avenue and Bond street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Benjamin Price	59	April 1, 1879	Captain	1700 N. Bond street	Coffee roaster.
Fredk. J. Stroehlein	31	Dec. 15, 1896	Lieutenant	520 Milton avenue	Clerk.
John N. Bletzer	40	Jan. 25, 1889	Engineman	722 S. Bond street	Machinist.
Jacob S. Corns	50	Mar. 1, 1895	Asst. Engineman	1812 N. Broadway	Machinist.
Michael J. Farley	41	April 26, 1889	Hostler	1827 N. Bond street	Car driver.
Louis Lohman	43	Mar. 1, 1895	Pipeman	2042 E. Federal street	Varnisher.
Zachariah H. Foote	39	Feb. 26, 1892	"	64 Belair avenue	Moulder.
Wm. McK. Morrow	35	May 14, 1895	"	1339 N. Bond street	Paper carrier.
Wm. S. Couzens	42	Oct. 31, 1897	"	1640 N. Bond street	Collar maker.
John N. Downs	56	Jan. 1, 1871	"	2123 Orleans street	Painter.
Bartley Halloran	32	Dec. 1, 1900	"	1323 Wirt street	Scroll sawyer.
Wm. H. Cuddy	46	June 20, 1888	"	1515 E. Madison street	Driver.

No. 20 ENGINE COMPANY.—Located on West North avenue, near Tenth street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George F. Kennard	37	Sept. 5, 1891	Captain	1810 Ninth street	Clerk.
William I. Johns	45	Aug. 3, 1888	Lieutenant	1430 E. Lanvale street	Bricklayer.
John H. Deal	61	Feb. 1, 1872	Engineman	1812 Ninth street	Machinist.
William H. Hardy	39	Mar. 1, 1895	Asst. Engineman.	1944 Hollins street	Machinist.
Richard H. Hobson	40	Aug. 20, 1896	Hostler	2806 Walbrook avenue	Driver.
Samuel W. Marker	53	April 15, 1880	Pipeman	1715 Liberty road	Carpenter.
Hugh P. Fox	44	July 8, 1892	"	1904 Seventh street	Blacksmith.
Walter J. Woods	51	Mar. 26, 1897	"	2866 W. Lanvale street	Carpenter.
Joseph G. Burger	43	Mar. 30, 1897	"	1807 Third street	Driver.
Charles Sapp	42	April 15, 1893	"	1418 W. Pratt street	Driver.
C. Allen Orem	53	Sept. 2, 1880	"	2906 Walbrook avenue	Painter.
Frank Lauber, Jr	27	Feb. 1, 1902	"	2508 Woodbrook avenue	Lineman.

No. 21 ENGINE COMPANY.—Located at Roland avenue and Oliver Place.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Hoffman	56	April 1, 1874	Captain	637 Pitcher street	Canmaker.
William F. Morrow	54	April 1, 1876	Lieutenant	1629 Druid Hill avenue	Moulder.
Jackson Hedrick	38	Dec. 23, 1896	Engineman	121 N. Patterson Park ave	Machinist.
Wm. P. Patterson	27	May 16, 1902	Asst. Engineman	1031 N Gilmor street	Engineer.
Millard Cozine	38	Feb. 1, 1902	Hostler	2019 E. Fayette street	Driver.
James L. Clarken	45	Aug. 1, 1888	Pipeman	226 Hickory avenue	Driver.
Edward E. Harp	31	Oct. 1, 1897	"	3240 Cedar avenue	Lineman.
Samuel Bersterman	27	Jan. 22, 1900	"	1533 Holbrook street	Carpenter.
Courtney Crabster	33	Sept. 8, 1899	"	835 Second avenue	Ironworker.
Henry Prodoehl	26	May 18, 1901	"	701 Blucher avenue	Confectioner.
Theodore Wood	31	Jan. 22, 1901	"	2609 Barclay street	Driver.
John Bell	46	Sept. 15, 1897	"	527 Oliver Place	Porter.

No. 22 ENGINE COMPANY.—Located at Patuxent and O'Donnell streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George E. Croucher	41	March 1, 1888	Captain	1124 Potomac street	Canmaker.
George W. Shipley	46	Nov. 30, 1889	Lieutenant.	109 N. Chester street	Gilder.
Charles W. Figgs	36	Aug. 10, 1901	Engineman	1107 Potomac street	Engineer.
Henry G Neimann	35	May 30, 1903	Asst. Engineman.	1015 Potomac street	Stationary Engineer.
Frederick W. Viehmeyer	43	July 13, 1893	Hostler	650 W. Mulberry street	Driver.
Martin Lutz	31	Dec. 1, 1900	Pipeman	2803 Fait avenue	Driver.
Otto Leidtke	30	Oct. 1, 1898	"	3011 O'Donnell street	Laborer.
Edward Kreager	34	Feb. 20, 1899	"	833 Chesapeake street	Driver.
John J. Flynn	36	Oct. 1, 1897	"	1004 Potomac street	Stationary Engineer.
John F. Curry	36	July 15, 1894	"	1005 Patuxent street	Stove Mounter.
Samuel Appel	34	Oct. 1, 1902	"	1107 Potomac street	Driver.
Joseph B. Whitney	35	July 1, 1903	"	3111 Dillon street	Furniture Packer.

No. 23 ENGINE COMPANY.—Located on Saratoga street, near Howard street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John T. Owens	31	July 25, 1896	Captain	1412 W. Lombard street	Armature winder.
Howard A. Dixon	29	June 30, 1899	Lieutenant.	436 E. Lanvale street	Gold beater.
Frank R. Nehren	39	July 1, 1891	Engineman	928 Argyle avenue	Machinist.
Jacob Crispens	29	Mar. 11, 1903	Asst. Engineman.	837 W. Fayette street	Blacksmith.
Henry Spittle	30	Dec. 1, 1900	Hostler	932 W. Mulberry street	Driver.
Wm. T. Garrison	27	Oct. 1, 1901	Pipeman	2009 Jefferson street	Tinner.
Wm. L. Hedges	39	Feb. 1, 1902	"	2228 E. Lanvale street	Painter.
Charles M. Potter	35	Feb. 1, 1902	"	611 E. Fort avenue	Laborer.
George D. Otter	25	Oct. 1, 1902	"	1529 Marshall avenue	Driver.
Wm. D. Beynon	23	Oct. 1, 1902	"	519 N. Exeter street	Driver.
Stephen Cosgrove	27	Oct. 6, 1893	"	831 Woodward street	Printer.
Samuel F. Griffith	26	July 1, 1903	"	106 W. Clement street	Carpenter.

No. 24 ENGINE COMPANY.—Located on Patterson Park avenue, near Fayette street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry J. Carle	33	Mar. 1, 1895	Captain	1430 E. Fayette street	Electrotyper.
James N. Robb	27	May 26, 1898	Lieutenant	230 N. Luzerne street	Pilot.
John Lindeman	56	April 7, 1889	Engineman	2036 Bank street	Machinist.
Charles H. Harrison	31	June 1, 1903	Asst. Engineman.	2603 Fait avenue	Marine engineer.
Samuel Truett	39	Nov. 23, 1900	Hostler	328 Girard avenue	Painter.
George C. Miles	22	Mar. 19, 1903	Pipeman	907 McHenry street	Machine hand
Charles Neubeck	24	Oct. 1, 1902	"	1364 Andre street	Laborer.
William L. Carlos	32	Mar. 8, 1903	"	923 Hanover street	Driver.
Charles M. Harris	24	April 7, 1903	"	316 S. Fulton avenue	Candymaker.
Edward A. Fitzgerald	25	Dec. 31, 1902	"	1203 E. Preston street	Printer.
George B. Chapman	28	Jan. 8, 1903	"	507 N. Fulton avenue	Telegraph operator.
William E. Schultz	26	Aug. 5, 1903	"	2102 W. Pratt street	Motorman.

No. 25 ENGINE COMPANY.—Located at McCulloh and Gold streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William R. Bolgiano	44	May 10, 1897	Captain	1218 S. Charles street	Clerk.
James A. Clark	38	Aug. 25, 1891	Lieutenant	168 Old York road	Car driver.
Thomas F. Sexton	50	July 1, 1882	Engineman	105 W. Clement street	Machinist.
John Leser	28	Nov. 24, 1900	Asst. Engineman.	1219 S. Charles street	Baker.
Oliver K. Drury	36	May 16, 1901	Hostler	1111 N. Wolfe street	Paperhanger.
Joseph A. Dove	25	Oct. 1, 1902	Pipeman	509 Wyeth street	Butcher.
Ross D. Gilbert.	24	July 1, 1903	"	1146 York road	Carpenter.
Clarence L. Bowman	29	July 1, 1903	"	1261 William street	Driver.
Allen G. Denny	28	July 1, 1903	"	1827 Hanover street	Laborer.
George W. Bentz	63	April 1, 1868	"	1615 N. Dallas street	Baker.
Harry J. Berger	22	July 1, 1903	"	590 N. Gay street	Newsdealer.
John N. Dittman	23	Sept. 18, 1903	"	1701 W. Fayette street	Patternmaker.

No. 1 HOOK AND LADDER COMPANY.—Located on Harrison street, between Fayette and Baltimore streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert R. Perry	36	June 7, 1892	Captain	2219 Orleans street	Iron moulder.
George E. McNeil	31	July 28, 1897	Lieutenant	1824 E. Monument street.	Stoker.
George W. Haskell	58	April 22, 1876	Tillerman	1246 N. Gay street	Carpenter.
Harry A. Donahoo	35	Mar. 3, 1896	Asst. Tillerman	1228 Jackson street	Cutter.
Frank H. Carr	27	Dec. 8, 1897	Hostler	19 S. Pulaski street	Steamfitter.
Zack. T. Seabreeze	55	April 1, 1890	Ladderman	125 S. Ann street	Driver.
Joseph H. Daly	48	June 15, 1881	"	708 Aisquith street	Stonecutter.
James P. Lyons	30	Mar. 1, 1895	"	412 N. Milton avenue	Horseshoer.
John Strohminger	33	June 2, 1900	"	232 N. Port street	Driver.
Charles P. Crass	29	July 15, 1901	"	246 N. Montford avenue.	Tinner.
Fred. W. Stortz	34	Oct. 1, 1902	"	225 N. Port street	Printer.
Ernest LeCompte	24	Nov. 19, 1903	Probationer	435 E. Preston street	Conductor.

No. 2 HOOK AND LADDER COMPANY.—Located on Paca street, near Fayette street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Emil Heise	44	April 1, 1890	Captain	307 N. Caroline street	Furniture packer.
James McCarron	33	March 1, 1895	Lieutenant	1630 N. Wolfe street	Potter.
Wm. G. Schultz	31	May 18, 1896	Tillerman	811 N. Caroline street	Boxmaker.
George Hanauer	30	Dec. 15 1897	Asst. Tillerman	14 N. Collington avenue	Tinner.
Thomas Montgomery	62	April 1, 1870	Hostler	121 N. Paca street	Driver.
John W. Wittig	32	April 27, 1898	Ladderman	1746 Bank street	Laborer.
Louis A. Tuckerman	28	June 23, 1900	"	12 Marriott street	Hairspinner.
Wm. H. Darney	32	Feb. 18, 1898	"	3 Mine Bank lane	Carpenter.
Robert E. O'Keefe	33	June 15, 1902	"	1510 W. Baltimore street	Motorman.
J. Walter Bradley	24	Jan. 3, 1903	"	1435 Hanover street	Clerk.
Wesley S. McClean	27	July 1, 1903	"	142 W. Cross street	Cabinetmaker.
George W. Michael	23	Aug. 6, 1903	Probationer	2502 Druid Hill avenue	Driver.

No. 3 HOOK AND LADDER COMPANY.—Located on Ann street, near Gough street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Foxwell	57	Jan. 1, 1871	Captain	1911 Bank street	Shipwright.
Peter Nelson	45	Jan. 3, 1890	Lieutenant	14 S. Ann street	Seaman.
James F. Reilly	51	Nov. 13, 1874	Tillerman	1633 E. Lombard street	Painter.
Robert T. Creamer	36	Mar. 9, 1897	Asst. Tillerman	1507 N Dallas street	Carpenter.
William Hastler	40	Mar. 21, 1893	Hostler	1923 Canton avenue	Hostler.
Christian Fitzberger	33	Mar. 1, 1895	Ladderman	123 S. Caroline street	China packer.
Joseph M. Diggs	35	May 30, 1896	"	317 S. Collington avenue	Iron moulder.
George E. Wellslager	32	Dec. 15, 1897	"	214 N. Patterson Park ave	Shearcutter.
Frederick N. Duke	37	June 17, 1899	"	12 N. Milton avenue	Copper smelter.
Charles Sommers	35	April 2, 1902	"	505 S. Ann street	Railroading.
Peter J. McMahon	30	Nov. 27, 1900	"	2105 E. Lombard street	Laborer.
Robert J. Thompson	25	Oct. 1, 1902	"	1533 E. Monument street	Electric worker.

No. 4 HOOK AND LADDER COMPANY.—Located on Biddle street, near Druid Hill avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. Bilson	52	July 2, 1896	Captain	629 N. Carey street	Plasterer.
Frederick W. Johnston	34	May 1, 1894	Lieutenant	2123 W. Lexington street	Carpenter.
George E. Gill	44	May 6, 1891	Tillerman	1317 Argyle avenue	Painter.
Milton R. Quigley	38	Nov. 20, 1897	Asst. Tillerman	1305 Pennsylvania avenue	Plumber.
Andrew J. Connelly	48	April 1, 1882	Hostler	1325 Lafayette avenue	Driver.
Lawrence Blake	55	April 1, 1871	Ladderman	1543 Aisquith street	Painter.
James H. Wentz	28	Sept. 1, 1898	"	707 W. Franklin street	Stonecutter.
Benjamin F. Seipp	26	June 22, 1900	"	1010 Appleton street	Blacksmith.
John J. Clancy	36	Oct. 2, 1897	"	1701 Hope street	Canmaker.
George W. Reinhart	29	Feb. 20, 1898	"	113 W. Twenty-third st	Salesman.
Lewis R. Bell	29	May 30, 1903	"	1900 Hanover street	Machinist helper.
William F. Beall	32	Sept. 30, 1903	"	1405 W. Baltimore street	Horseshoer.
Thomas F. Duffy	25	Nov. 19, 1903	Probationer	332 E. Twentieth street	Lineman.

No. 5 HOOK AND LADDER COMPANY.—Located at S. E. corner North avenue and Bond street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John L. Emerson	35	Jan. 18, 1892	Captain	2438 Woodbrook avenue	Painter.
John F. Maguire	35	Feb. 7, 1893	Lieutenant	1833 N. Bond street	Shipping clerk.
Louis Herman	33	Oct. 1, 1897	Tillerman	1525 N. Spring street	Machine hand.
Howard Travers	28	April 27, 1897	Asst. Tillerman	1233 E. Madison street	Laborer.
William Quinn	54	April 1, 1887	Hostler	1034 N. Eden street	Driver.
George F. Thompson	51	April 1, 1892	Ladderman	1623 Aisquith street	Straw hat maker.
John Sullivan	40	Dec. 8, 1890	"	1415 Harford avenue	Painter.
Robert E. L. Johns	40	Feb. 7, 1898	"	1613 E. Lanvale street	Carpenter.
William Wiley	61	April 1, 1887	"	1308 Harford avenue	Cigarmaker.
John I. Buck	34	Dec. 12, 1896	"	1423 E. Hoffman street	Bricklayer.
Frederick R. Berkemeier	29	June 15, 1902	"	1331 E. Lanvale street	Driver.
Andrew L. Fredericks	25	April 3, 1902	"	1724 Harford avenue	Clerk.

No. 6 HOOK AND LADDER COMPANY.—Located at Hanover and Ostend streets.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Paul Linde	36	Feb. 24, 1891	Captain	617 Hanover street	Canmaker.
Charles E. Donahue	25	Nov. 23, 1900	Lieutenant	1427 Eastern avenue	Clerk.
Amos G. Bramble	34	Mar. 1, 1895	Tillerman	727 W. Fayette street	Driver.
Henry Marks	29	Oct. 25, 1898	Asst. Tillerman	1216 Patapsco street	Laborer.
Louis Matthaei	39	Nov. 12, 1891	Hostler	1405 Patapsco street	Driver.
Adolph Vonderlinde	25	Aug. 28, 1899	Ladderman	513 S. Howard street	Engineer.
James A. Nash	36	April 29, 1899	"	313 E. Fort avenue	Moulder.
Frank Heiner	27	April 3, 1902	"	1028 W. Barre street	Piano polisher.
Louis Schleicher	27	Sept. 6, 1899	"	1426 Patapsco street	Enameler.
Wm. Hartwig	36	Nov. 27, 1900	"	1019 S. Charles street	Tinner.
Wm. Leonard	49	Feb. 23, 1893	"	1118 Ridgely street	Carpenter.
Charles Fay	47	Feb. 14, 1893	"	21 E. Ostend street	Carpenter.

No. 7 HOOK AND LADDER COMPANY.—Located at Waverly.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Willam H. Taylor	62	June 1, 1888	Captain	3108 York road	Conveyancer.
John F. Raymond	29	Dec. 28, 1899	Hostler	414 Girard avenue	Lineman.
A. J. McCormick	44	May 19, 1889	Ladderman	505 E. Thirtieth street	Car driver.
George N. Walker	36	Mar. 1, 1899	"	390 Waverly avenue	Plumber.
John L. Thomas	35	June 1, 1892	"	507 E. Thirtieth street	Blacksmith.
Jos. V. Heilker	25	Aug. 6, 1903	Probationer	804 Somerset street	Pipefitter.

No. 8 HOOK AND LADDER COMPANY.—Located on Brunswick street, near Frederick avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles L. Steinwedel	35	Mar. 9, 1897	Captain	30 Canton avenue	Laborer.
John L. Durham	40	May 5, 1889	Hostler	207 Millington avenue	Plumber.
John A. Epp	41	Feb. 15, 1893	Ladderman	434 Frederick avenue	Cabinetmaker.
Antone Yienger	39	July 23, 1889	"	1 Brunswick street	Candymaker.
Walter F. Musgrove	32	April 8, 1897	"	Wesley ave., Annex	Iron moulder.
Frank P. Kerr	22	Sept. 19, 1903	Probationer	2030 Frederick avenue	Butcher.

No. 9 HOOK AND LADDER COMPANY.—Located at Roland avenue and Oliver Place.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Frank C. Berger	47	April 3, 1886	Acting Captain	853 Blucher avenue	Silversmith.
Thomas C. Eline	33	Oct. 1, 1902	Hostler	1127 Wilcox street	Driver.
Matthew Carroll	45	April 8, 1896	Ladderman	4028 Hickory avenue	Laborer.
Gustav Stolinski	30	Mar. 20, 1899	"	603 Caldwell avenue	Laborer.
James M. Ford	29	May 1, 1903	"	1432 Battery avenue	Pilot.

No. 10 HOOK AND LADDER COMPANY.—Located on Lafayette avenue, near Gilmor street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John W. Cook	43	May 7, 1893	Captain	1412 Lafayette avenue	Baker.
Henry C. Kabernagle	44	April 15, 1896	Lieutenant	1418 Lafayette avenue	Laborer.
James B. Kelly	46	April 1, 1887	Tillerman	1014 N. Carey street	Driver.
Frederick Grauling	39	Dec. 26, 1893	Asst. Tillerman	2031 Canton avenue	Laborer.
Cooper Elliott	50	Oct 1, 1887	Driver	719 N. Caroline street	Driver.
Wm. G. Hughes	38	Feb. 4, 1898	Ladderman	1508 N. Mount street	Stonecutter.
August I. Walker	39	Oct. 8, 1898	"	933 N. Stricker street	Plumber.
William S. Fort	33	Feb. 8, 1898	"	825 N. Mount street	Painter.
Gustavus C. Raabe	47	Sept. 6, 1899	"	1111 N. Gilmor street	Driver.
John S. Webb	42	Mar. 9, 1899	"	1047 W. Lexington street.	Driver.
James McGee	47	Sept. 27, 1897	"	2010 Harlem avenue	Driver.
Michael J. Kram	40	Dec. 28, 1898	"	1104 E. Hoffman street	Cooper.

No. 11 HOOK AND LADDER COMPANY.—Located at McMechen street and North avenue.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas J. Strahler	44	Dec. 18, 1881	Captain	1320 Ensor street	Tinner.
Edward W. Steinacker	43	June 1, 1888	Lieutenant	7 Brunswick street	Hostler.
Frank A. Hanssen	35	Dec. 12, 1892	Tillerman	2151 Jefferson Place	Blacksmith.
George E. Fornwalt	34	Jan. 17, 1897	Asst. Tillerman	757 W. Fayette street	Fireman.
Thomas R. Wann	35	Mar. 9, 1897	Hostler	519 Oliver Place	Motorman.
Clarence Kirby	43	Dec. 12, 1896	Ladderman	1507 E. Preston street	Carpenter.
George T. Evans, Jr	26	July 27, 1898	"	2305 N. Charles street	Upholsterer.
Charles L. Wain	35	Dec. 9, 1897	"	2125 Madison avenue	Driver.
Henry Heinze	37	Aug. 1, 1898	"	1840 Harford avenue	Shipping clerk.
William J. McDonald	36	Mar. 1, 1895	"	916 Patterson Park ave	Tinner.
George W. McFadden	35	May 10, 1892	"	3222 Cedar avenue	Carpenter.
Nicholas H. Hartshorn	23	Feb. 1, 1902	"	1926 Garrett avenue	Mariner.
Herman Seeger	36	Dec. 2, 1897	Probationer	1918 Frederick avenue	Cigarmaker.

No. 1 CHEMICAL ENGINE COMPANY.—Located on Gorsuch avenue, near Harford Road.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert H. Dougherty....	46	Jan. 12, 1889...	Captain.....	1919 Kennedy avenue.....	Undertaker.
Ambrose Spangler.....	38	Nov. 26, 1895...	Hostler.....	47 Gorsuch avenue.....	Driver.
Martin Kirby.....	59	April 1, 1883...	Pipeman.....	934 Aisquith street.....	Trunkmaker.

No. 2 CHEMICAL ENGINE COMPANY.—Located on Woodbrook avenue, near Retreat street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James K. Merriken	41	Aug. 1, 1888...	Captain.....	3019 Pennsylvania ave	Driver.
Christian Freyer.....	44	May 1, 1893...	Hostler.....	1914 Pulaski street..	Blacksmith.
John M. Gilleland	36	April 3, 1895...	Pipeman.....	919 Appleton street	Driver.

No. 3 CHEMICAL COMPANY.—Located at North avenue and Tenth street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Joseph J. Presley.....	37	Feb. 15, 1893...	Captain.....	2502 Druid Hill avenue ...	Car driver.
Paul F. Lawrence	27	July 16, 1901...	Hostler.....	1537 Newington Place	Conductor.
Charles M. Johannes.....	37	Jan. 25, 1895...	Pipeman.	3013 Northwest street.....	Stonecutter.

REPORT

—OF THE—

Superintendent of Fire-Alarm Telegraph.

1903.

REPORT.

To the Honorable Board of Fire Commissioners:

GENTLEMEN—Your generous approval of my requisitions enables me to present the following satisfactory report of the operations of the Telegraph Department for the year ending December 31, 1903:

With the exception of about ten miles, the overhead lines have been reconstructed, covered wire being substituted for the bare wire, a considerable portion of which having been in use for years was liable to cause frequent interruptions to the service, that the importance of this branch of the Department makes it our duty to, as far as possible, prevent.

The results justify your liberal appropriations to this purpose, swinging contacts are rare, and danger to the linemen, as well as the apparatus, has been practically eliminated.

All decayed and dangerous poles have been replaced, and the lines generally are in exceptionally good condition.

Following is a summary of the outside work done during the year:

Renewed 32 poles which were in a dangerous condition, and erected 33 for extension of lines to locations of new boxes.

100 miles of covered wire was substituted for bare wire, and 4 miles used for new boxes.

2,132 feet of cable was used for new boxes, and 1,700 feet connecting Engine Houses Nos. 23 and 25.

1,385 feet used for connecting individual gongs, and 400 feet for renewal of a section damaged by electrolysis.

All individual gongs have been disconnected from the alarm circuits, and provided for by a circuit independent of the regular service.

The installation of the storage battery for transmission of alarms to engine houses has been highly satisfactory in providing a current that is easily kept uniform, operating the gongs without the frequent adjustment previously required.

The overhead lines were subjected to only one severe storm during the year, July 12th; the northeastern section of the city suffered from a tornado, which did great damage to property in that neighborhood. This Department was fortunate in having only six circuits open, the wires being broken by tin roofs falling on them. Our linemen, with their usual zeal, were soon at the trouble, and in three hours had restored communication so that all boxes and engine houses were in service.

Seventeen new boxes were placed during the year:

No. 548—Charles and Hill streets.
No. 227—Front and Forrest streets.
No. 258—Lanvale and Aiken streets.
No. 618—Battery avenue and York street.
No. 716—Calhoun and Baker streets.
No. 582—Academy of Music.
No. 129—Safe Deposit and Trust Company.
No. 727—Arundell Apartment House.
No. 69—Oak Hill avenue and Twentieth street.
No. 691—Guilford avenue and Twenty-third street.
No. 692—Park and Newington avenues.
No. 728—Falls road and Belt Line Railroad.
No. 745—Ashland and Collington avenues.
No. 746—Chase street and Patterson Park avenue.
No. 747—Hoffman street and Patterson Park avenue.
No. 139—Block and Point streets.
No. 595—No. 25 Engine House.

The electric light wiring in Engine Houses Nos. 9 and 15 has been entirely renewed by employees of this Department, the work being done according to plans embracing modern devices and methods, securing safety in the use of this form of illumination and removing the unsightly and dangerous moulding from the walls and ceilings.

A new device for releasing the horses from the stalls on the first stroke of the gong has been substituted for the bell crank and wires formerly employed for this purpose. The plan, while superior to the old method, will require less attention and repair, and does not interfere with the attractive finish of the interior of the new houses. A simple device for calling the firemen and releasing the horses on "silent" alarms is a part of this installation, and adds to the efficiency of the service.

The Municipal Telephone Exchange has operated successfully during the year, rendering valuable aid to the Department. The importance of an additional operator for the telephone work, so that the fire alarm operators may give their whole time to the calls from the fire ground, has been demonstrated on several occasions when fires have occurred during the early morning hours. Calls for additional apparatus, or other aid required by the Chief Engineer or his Assistants, must be promptly and intelligently handled, and nothing should prevent immediate response to any signal transmitted from the location of a fire.

The action of the Board regarding responses to inquiries as to location and extent of fires has been of much benefit to the Department. Many of the calls were from irresponsible persons, prompted by curiosity, and interfered seriously with the duties of the operator. The annoyance from this source has been almost completely suppressed, and with much advantage to the service.

The careful inspection of engine house gongs and fire alarm boxes has secured reliable action of the machinery. Alarms from street boxes during the year were transmitted to the engine houses without an error. Missing and double strokes are rare, and I have reason to believe that absolute confidence in the machinery is acknowledged by all interested in this detail of the service.

Some slight repairs to the instruments have been necessary, but we have succeeded in keeping the apparatus in order with the assistance of Baltimore mechanics.

I beg leave to request that the recommendation for restoration of the salaries of the operators will be renewed by your Honorable Board. The intelligent and successful efforts of these employees merit consideration, and while the compensation they receive is less than the allowance made for similar service in other cities, no community enjoys better service than that rendered by the employees of this Department.

The four-dial transmitter and storage battery switchboard contracted for will materially improve our service, so that I do not anticipate any material expense will be necessary to keep the service fully up to all it may be called to do.

My efforts to merit your confidence is the best return I can make for the many favors granted during the year, and in this it is with pleasure that I acknowledge the assistance of the operators and linemen, whose cheerful and prompt response to all calls is an evidence of their appreciation of your generous consideration of them.

Very respectfully,

J. B. YEAKLE,

Superintendent Telegraph.

ROSTER

—OF THE—

TELEGRAPH DEPARTMENT.

1903.

ROSTER OF TELEGRAPH DEPARTMENT.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. B Yeakle....	60	June 1, 1901...	Superintendent...	Forest Park.	Gen. Mgr. American Dis. Tel. Co.....
William F. Gettrust.....	29	Sept. 8, 1897...	Teleg'ph Operator	912 W. Fayette street.....	Telegraph Operator.
Michael J. Dean.....	35	Jan. 1, 1903...	"	1612 E. Monument street.	"
H. C. Martin.....	36	June 1, 1896...	"	1743 E. Lafayette avenue..	"
C. C. Prince.....	39	Jan. 1, 1894...	"	2318 E. Baltimore street...	"
W. E. Shuter.....	33	Mar. 1, 1896...	"	301 E. North avenue.....	"
S. E. Smith.....	34	May 11, 1898...	"	2309 Barclay street.....	"
G. A. Clockley	28	Dec. 7, 1903...	Sub. Operator.....	1027 Hanover street.....	"
John M. Kerr.....	27	June 1, 1902...	Teleph'ne Oper'tr	1000 Potomac street.....	Clerk.
Frank L. Freeze.....	25	Mar 1, 1903...	"	1413 Druid Hill avenue....	Telephone Operator.
J. N. Smith.....	41	Feb. 28, 1897...	Lineman	1511 N. Bond street.....	Lineman .....
Thomas W. Glass.....	39	May 15, 1893...	"	1029 Hopkins avenue.....	" .....
James W. Anderson	38	Mar. 16, 1896...	"	1337 W. Lafayette avenue	" .....
Nicholas C. Wolfe.....	52	Aug. 4, 1898 ..	"	1116 Mosher street.....	" .....
Robert Kain..	47	Mar. 1, 1878...	"	1003 Fulton avenue	" .....

ANNUAL REPORT

—OF THE—

CITY COLLECTOR

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDED DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904.

REPORT.

DEPARTMENT OF FINANCE,
SUB-DEPT., CITY COLLECTOR'S OFFICE,
CITY HALL,

BALTIMORE, January 1, 1904.

To the Honorable Mayor and City Council of Baltimore:

GENTLEMEN. I herewith transmit for your consideration the report of this department for the year ending December 31, 1903.

Respectfully submitted,

HENRY WILLIAMS,
City Collector.

TABLES.

TABLE A.

Total City and State Taxes, Including the Annex, Received from January 1, 1903, to December 31, 1903.

	City.	State.	Total.	ANNEX AND SUBURBAN.		
				City.	State.	Total.
January	$2,794,976 22	$290,060 33	$3,085,036 55	$25,616 31	$6,416 96	$32,033 27
February	625,702 02	43,132 40	668,834 42	6,282 65	1,583 68	7,866 33
March	380,205 72	25,090 07	405,295 79	4,284 87	789 39	5,074 26
April	405,042 04	30,326 91	435,368 95	2,916 42	753 67	3,670 09
May	390,295 16	35,047 98	425,343 14	8,916 01	1,987 75	10,903 76
June	431,735 45	35,976 26	467,711 71	7,534 89	1,836 28	9,371 17
July	505,436 95	43,184 31	548,621 26	4,296 54	1,193 79	5,490 33
August	117,247 74	34,024 37	151,272 11	2,678 07	1,011 76	3,689 83
September	131,709 36	15,138 24	146,847 60	29,853 35	7,721 12	37,574 47
October	125,649 19	12,316 86	137,966 05	8,641 99	1,949 87	10,591 86
November	134,573 83	12,516 14	147,089 97	3,488 24	828 54	4,316 78
December	148,985 11	12,582 99	161,568 10	8,194 31	2,053 24	10,247 55
Total	$6,191,558 79	$589,396 86	$6,780,955 65	$112,703 65	$28,126 05	$140,829 70

City, including Streets and Mortgages	$6,191,558 79	State (City proper)	$589,396 86
City Annex	112,703 65	State Annex	28,126 05
	$6,304,262 44		$617,522 91

City	$6,304,262 44
State	617,522 91
Total	$6,921,785 35

TABLE B.

Recapitulation of Taxes Collected from January 1, 1903, to December 31, 1903.

	Basis.	Rate.	Tax.	Discount.	Net Tax.	Interest.	Total.
1899.		$1 98					
Personal.	$ 578,873		$ 11,461 63	.....	$ 11,461 63	$ 1,947 52	$ 13,409 15
Securities.....	2,100	30	6 30	.....	6 30	1 30	7 60
1900.		1 67					
Real.....	583,503		9,744 50	....	9,744 50	2,175 88	11,920 38
Personal.....	295,090		4,927 97	....	4,927 97	887 11	5,815 08
Securities.....	105,346	30	316 04	..... .	316 04	57 33	373 37
1901.		1 81¾					
Real.....	13,713,418		248,898 50	.....	248,898 50	29,042 86	277,941 36
Personal.....	1,929,422		35,018 95	.....	35,018 95	4,542 31	39,561 26
Securities.....	252,476	30	757 45	.....	757 45	89 73	847 18
1902.		1 95					
Real.....	25,358,033		494,481 71	.....	494,481 71	25,801 61	520,283 32
Personal.	3,816 874		74,429 07	....	74,429 07	3,879 56	78,308 63
Securities.....	709,399	30	2,128 23	.....	2,128 23	134 88	2,263 11
1903.		1 86¾					
Real.....	204,013,873		3,809,959 07	$61,648 94	3,748,310 13	4,454 49	3,752,764 62
Personal.....	64,902,181		1,212,048 22	20,842 85	1,191,205 37	1,160 92	1,192,366 29
Securities.....	83,921,004	30	251,763 01	5,641 23	246,121 78	111 34	246,233 12
Total.....	$400,181,592		$6,155,940 65	$88,133 02	$6,067,807 63	$74,286 84	$6,142,094 47
Opening Streets and Alleys							22,825 41
Paving Streets and Alleys							8,886 16
Mortgages							17,752 75
							$6,191,558 79

NOTE.—The discount allowed by the Mayor and City Council for the prompt payment of taxes on Levy of 1903 on Real and Personal, according to the above table, was $82,491.79, which is equivalent to the taxes on a basis of $4,417,231, and this amount deducted from the gross basis, $268,916,054, leaves a net basis collected upon of $264,498,823. (See Table G.)

TABLE C.

Rate Per One Hundred Dollars.

	1899.	1900.	1901.	1902.	1903.
Police Department	32 1/2	27 7/8	33 5/16	31 9/16	32 1/8
Certain Expenses	9 3/4	8 1/8	6 1/4	6 1/3	6 1/4
Public Schools	35 1/2	30 1/2	30 1/16	41 7/8	40 13/16
City Poor	13	11 7/8	13 1/16	14 1/8	16 1/16
City Direct	53	43 3/4	49 1/16	55 1/4	44 1/16
Interest on Stock Debt	34 1/2	27 7/8	31	29 13/16	29 7/16
Opening Streets	1/2	3/4	5/8	.....	1/2
Water 1926 Sinking Fund	1	1	1	1	1
Internal Improvement 1928 Sinking Fund	3	3	3	3	3
General Sinking Fund	8 1/4	3 1/4	3 1/4	3 1/4	2 1/4
Public Improvement 1940 Sinking Fund	2	2	2	2	2
Four Million Loan Sinking Fund	1/2	1/2	1/2	1/2	1/2
Water 1916 Sinking Fund	2	2	2	2	2
Water 1922 Sinking Fund	1/2	1/2	1/2	1/2	1/2
Funding 1936 Sinking Fund	1	1	1	1	1
Conduit 1922 Sinking Fund	1	1	1	1	1
Refunding 1940 Sinking Fund	.....	2	2	2	2
Conduit 1928 Sinking Fund	.....	.....	.....	.....	1
	$1 98	$1 67	$1 81 1/2	$1 95	$1 86 3/4

TABLE D.

Monthly Receipts of Taxes on Several Levies from 1899 to 1903, inclusive, for Opening and Paving Streets and Alleys, Securities and Mortgages, from January 1, 1903, to December 31, 1903.

	1899.	1900.	1901.	1902.	1903.	Opening Streets and Alleys.	Paving Streets and Alleys.	Securities.	Mortgages	Total.
Jan.....	$6,974 17	$3,082 49	$28,923 18	$112,622 88	$2,429,388 16	$ 587 56	$2,611 11	$208,744 96	$2,041 71	$2,794,976 22
Feb.....	2,353 30	2,115 35	16,599 26	43,471 56	548,926 51	220 37	1,679 51	9,380 27	955 89	625,702 02
March...	378 06	599 86	22,898 39	42,622 12	307,394 80	175 25	622 85	5,379 54	134 85	380,205 72
April....	342 93	853 46	17,891 32	37,664 90	336,281 10	5,658 32	982 76	5,212 90	154 35	405,042 04
May.....	518 44	2,675 52	51,882 19	66,986 50	264,286 68	79 09	4 07	3,658 90	203 77	390,295 16
June.....	285 57	1,403 50	28,005 02	90,490 99	308,457 57	21 04	729 35	2.118 84	223 57	431,735 45
July.....	247 23	554 31	33,614 12	56,942 10	409,696 51	.....	143 32	4,145 55	93 81	505,436 95
Aug.....	655 94	567 17	20,633 75	25,843 83	60,402 30	.....	1,402 77	7,681 85	60 13	117,247 74
Sept.....	1,036 81	531 47	16,983 92	25,365 14	75,794 03	.....	647 05	1,500 96	9,849 98	131,709 36
Oct	275 41	1,461 42	22,494 15	29,323 90	68,047 61	905 00	.....	542 21	2,599 49	125,649 19
Nov.....	97 01	1,374 69	41,248 95	30,429 01	60,292 22	.....	33 40	515 91	582 64	134,573 83
Dec.....	244 28	2,516 22	16,328 37	36,829 02	76,163 42	15,178 78	29 97	842 49	852 56	148,985 11
Totals...	$13,409 15	$17,735 46	$317,502 62	$598,591 95	$4,945,130 91	$22,825 41	$8,886 16	$249,724 38	$17,752 75	$6,191,558 79

TABLE E.

Division of Taxes Received from January 1, 1903, to December 31, 1903.

	1899.	1900.	1901.	1902.	1903.	Total.
Police Department	$1,881 33	$2,449 06	$52,110 25	$ 93,083 01	$ 849,702 44	$ 998,226 09
Certain Expenses	564 42	713 88	9,776 69	17,869 58	165,311 59	194,236 16
Public Schools	2,054 97	2,679 83	48,004 05	122,169 69	1,079,485 93	1,254,394 47
City Poor	752 50	1,042 95	21,411 12	41,209 54	441,382 49	505.798 60
City Direct	3,068 01	3,843 73	77,725 22	161,191 17	1,181,979 16	1,427,807 29
Interest on Stock Debt	1,997 07	2,449 06	48,492 75	86,978 31	778,618 44	918,535 63
Opening Streets	28 96	65 85	977 63		13,224 93	14,297 37
Water 1926 Sinking Fund	57 88	87 87	1,564 30	2,917 50	26,449 86	31,077 41
Internal Improvements 1928 Sinking Fund	173 67	263 67	4,692 87	8,752 53	79,349 65	93,232 39
General Sinking Fund	477 66	285 68	5,083 91	9,481 87	59,512 38	74,841 50
Public Improvements 1940 Sinking Fund	115 76	175 75	3,128 58	5,835 02	52,899 73	62,154 84
Four Million Loan Sinking Fund	28 96	43 95	782 16	1,458 76	13,224 93	15,538 76
Water 1916 Sinking Fund	115 72	175 75	3,128 58	5,835 02	52,899 73	62,154 80
Water 1922 Sinking Fund	28 96	43 95	782 16	1,458 76	13,224 93	15,538 76
Funding 1936 Sinking Fund	57 88	87 87	1,564 30	2,917 50	26,449 86	31,077 41
Conduit 1922 Sinking Fund	57 88	87 87	1,564 30	2,917 50	26 449 86	31,077 41
Refunding 1940 Sinking Fund		175 75	3,128 58	5,835 02	52,899 73	62,039 08
Conduit 1928 Sinking Fund					26,449 86	26,449 86
	$11,461 63	$14,672 47	$283,917 45	$568,910 78	$4,939,515 50	$5,818,477 83
Interest	1,947 52	3,062 99	32,585 17	29,681 17	5,615 41	73,892 26
	$13,409 15	$17,735 46	$317 502 62	$598,591 95	$4,945,130 91	$5,892,370 09
Opening and Closing of Streets and Alleys						22,825 41
Paving Streets and Alleys						8,88 16
Securities						249,724 38
Mortgages						17,752 75
						$6,191,558 79

TABLE F.

Showing the Percentage Collected During the Current Year of the Respective Levies from 1894 to 1903, Inclusive, Including Securities from 1897.

Year.	Basis.	Basis Collected Upon.	Per Cent.
1894	$292,090,946	$210,798,898	72.17
1895	295,065,321	211,962,302	71.84
1896	294,234,565	209,773,836	71.26
1897	320,755,866	231,609,977	72.21
1898	319,286 803	242,727,711	76.02
1899	329,377,795	284,927,082	86.50
1900	379,070,440	325,737,234	85.93
1901	401,695,002	342,873,400	85.36
1902	413,379,062	357,942,351	86 58
1903	408,049,102	352,837,058	86.47

TABLE G.

Showing the Percentage Collected Monthly on Real and Personal Property, Levy of 1903, to December 31, 1903.

Real and Personal Basis, December 31, 1903.	Months.	Basis Collected Upon	Per Cent.	
$321,214,901	January	$133,423,303	41.6	
	February	29,993,526	09 3	
	March	16,710,899	05.2	
	April	18,188,908	05.7	
	May	14,201,118	04.4	
	June	16,504,258	05.2	
	July	21,927,206	06.9	
	August	3,214,059	01.0	
	September	4,020,448	01.2	
	October	3,591,281	01.1	
	November	3,163,810	00.9	
	December	3,977,238	01.2	
		$268,916,054	83.7	Gross.
Discount allowed, reduced to basis		4,417,231		
Net basis collected upon		$264,498,823	82.3	Net.
Real and personal basis estimated upon by Board of Estimates		$334,144,151		
Real and personal basis collected upon		268,916,054	80.5	Gross.
		264,498,823	79.2	Net

TABLE H.

Summary of Receipts for Opening and Closing Streets and Alleys from January 1, 1903, to December 31, 1903.

Aiken street	$ 431 32
Belt street	12,136 72
Beason street	1.533 50
Jackson street	7,462 05
Viaduct avenue	582 50
Closing Gilmore lane	679 32
	$22,825 41

TABLE I.

Summary of Receipts for Paving Streets and Alleys from January 1, 1903, to December 31, 1903.

Brunt street	$1,663 57
Calvert street	689 10
Carey street	882 23
Fayette street	1,473 83
Henry street	519 29
Hoffman street	1,314 35
Montford avenue	851 17
Rose street	1,407 67
Footway, Charles and Twenty-seventh streets	5 92
Footway, southeast corner Franklin and Mount streets	30 82
Footway, South Fulton avenue	3 86
Footway, West Fayette street	4 30
Footway, Frisby street	1 29
Footway, West Lanvale street	2 58
Footway, Madison street	8 83
Footway, adjoining southwest corner Preston street and Collington avenue	6 36
Footway, Roland avenue	13 23
Footway, Twentieth street	3 27
Footway, Twenty-fifth street	4 49
	$8,886 16

TABLE J.

Shows the Total Amounts Collected, the Total Basis Collected Upon During the Year 1903 on Taxes in Arrears, and on Levy of 1903, in Comparison with Same for the Year 1902.

The total amounts collected in 1903 were:		
On taxes in arrears	$ 47,344,534	$ 950,730 44
On Levy of 1903, real and personal	268,916,054	4,945,130 91
On Levy of 1903, securities	83,921,004	246,233 12
Total	$400,181,592	$6,142,094 47
The total amounts collected in 1902 were:		
On taxes in arrears	$ 43,053,517	$ 806,770 12
On Levy of 1902, real and personal	268,819,836	5,166,902 47
On Levy of 1902, securities	89,122,515	261,178 20
Total	$400,995,868	$6,234,850 79

SUMMARY.

1903—Taxes in arrears	$ 47,344,534	$ 950,730 44
1902—Taxes in arrears	43,053,517	806,770 12
1903—Levy of 1903, real and personal	268,916,054	4,945,130 91
1902—Levy of 1902, real and personal	268,819,836	5,166,902 47
1903—Levy of 1903, securities	83,921,004	246,233 12
1902—Levy of 1902, securities	89,122,515	261,178 20

TABLE K.

Showing the Total Collection Made During the Year 1903 in Comparison with Estimate as Made by the Board of Estimates.

	Collected.	Estimate.	Deficiency.	Excess.
Current	$4,939,515 50	$5,210,519 22	$271,003 72	
Current interest.	5,615 41			$ 5,615 41
Arrears	947,239 18	813,000 00		134 239 18
Annex	112,703 65	76,063 48		36,640 17
Securities	249,724 38	283,009 68	33,285 30	
Mortgages	17,752 75	19,500 00	1,747 25	
	$6,272,550 87	$6,402,092 38	$306,036 27	$176,494 76

SUMMARY.

Collected	$6,272,550 87
Estimated	6,402,092 38
Amount collected under estimate	$129,541 51
Deficiency	$306,036 27
Excess	176,494 76
Amount collected under estimate	$129,541 51

TABLE L.

Shows the Amount of Mortgage Tax Collected Monthly from January 1, 1903, to December 31, 1903.

	1899.	1900.	1901.	1902	1903.	Total.	City Portion.	State Portion.
January	$1,797 08	$187 55	$199 23	$538 42	.....	$ 2,722 28	$2,041 71	$ 680 57
February	861 54	180 34	101 68	130 95	.....	1,274 51	955 89	318 62
March	.....	3 80	50 08	125 92	.....	179 80	134 85	44 95
April	.....	104 81	47 30	53 68	.....	205 79	154 35	51 44
May	.....	211 07	6 26	54 36	.....	271 69	203 77	67 92
June	.....	223 15	38 73	36 21	.....	298 09	223 57	74 52
July	.....	32 22	11 51	81 35	.....	125 08	93 81	31 27
August	.....	10 50	49 46	20 20	.....	80 16	60 13	20 03
September	.....	39 30	32 56	76 86	$12,984 58	13,133 30	9,849 98	3,283 32
October	.....	6 84	5 77	87 87	3,365 50	3,465 98	2,599 49	866 49
November	.....	18 37	16 30	18 90	723 27	776 84	582 64	194 20
December	.....	16 36	54 38	339 09	726 90	1,136 73	852 56	284 17
	$2,658 62	$1,034 31	$613 26	$1,563 81	$17,800 25	$23,670 25	$17,752 75	$5,917 50

TABLE A—ANNEX AND SUBURBAN.

The collections during the year 1903 were $112,703.65, of which there were collected on:

Levy of 1899	$ 268 13
Levy of 1900	8,074 44
Levy of 1901	7,311 95
Levy of 1902	8,187 99
Levy of 1903	88,861 14
	$112,703 65

The basis collected upon were:

Levy of 1899	$ 36.569
Levy of 1900	1,137,540
Levy of 1901	1,109,377
Levy of 1902	1,297,836
Levy of 1903	14,906,640
	$18,487,962

The amount of State taxes collected on were:

Levy of 1899	$ 66 96
Levy of 1900	
Levy of 1901	1,619 39
Levy of 1902	2,136 09
Levy of 1903	24,303 61
	$28,126 05

Total City	$112,703 65
Total State	28,126 05
	$140,829 70

TABLE B—Annex and Suburban.

Recapitulation of Taxes Collected from January 1, 1903, to December 31, 1903.

	Basis.	Rate.	Tax.	Discount.	Net Tax.	Interest.	Total.
1899.							
Real	$ 17,743	60c.	$ 106 45		$ 106 45	$ 24 84	$ 131 29
Personal.	18,826	60c.	112 96		112 96	23 88	136 84
1900.							
Real	1,085,125	60c.	6,510 73		6,510 73	1,193 70	7,704 43
Personal.	52,415	60c.	314 47		314 47	55 54	370 01
1901.							
Real	1,109,377	60c.	6,656 23		6,656 23	655 72	7,311 95
1902							
Real	1,297,836	60c.	7,787 00		7,787 00	400 99	8,187 99
1903.							
Real	14,906,640	60c.	89,439 80	$834 56	88,605 24	255 90	88,861 14
	$18,487,962		$110,927 64	$834 56	$110,093 08	$2,610 57	$112,703 65

SEVENTY-FIFTH ANNUAL REPORT

— OF THE —

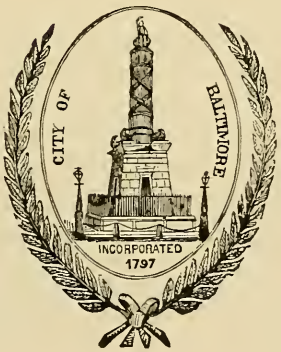
BOARD OF SCHOOL COMMISSIONERS

— TO THE —

MAYOR AND CITY COUNCIL OF BALTIMORE

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

BOARD OF SCHOOL COMMISSIONERS.

ORGANIZED MARCH 1, 1900.

Name.	*Address.*	*Term Expires.*
JOSEPH PACKARD, *President*	207 N. Calvert Street	1906
*THOMAS S. BAER		1906
ALCAEUS HOOPER	Merchants' Bank Building	1908
CHARLES H. EVANS	600 Water Street	1908
ALBERT B. CUNNINGHAM	2241 Barclay Street	1904
WILLIAM ROSENAU	825 Newington Avenue	1904
JAMES H. PHILLIPS	102 E. Madison Street	1906
THOMAS McCOSKER	Foot of Chesapeake Street	1904
IRA REMSEN	214 W. Monument Street	1908

OFFICERS.

JAMES H. VAN SICKLE	Superintendent.
HENRY A. WISE	First Assistant Superintendent.
JOHN E. McCAHAN	Assistant Superintendent.
HENRY M. COWLES	Secretary.
FRANK N. CLARIDGE	First Assistant Secretary.
HENRY C. BUCKMASTER	Second Assistant Secretary.
BENJ. B. OWENS	Supervisor of School Buildings.
GEO. W. McGILL	Clerk to Superintendents.
FLORA M. PFOUTZ	Stenographer.
HOWARD WHITCRAFT	Clerk to Supervisor.

* Mr. Thomas S. Baer resigned his office in November, 1903, upon his election as Judge of the Supreme Bench of Baltimore. On February 29, 1904, Mr. B. Howard Haman was appointed by the Mayor to fill his unexpired term.

Department of Education,

Office of the Board of School Commissioners.

Baltimore, January 1, 1904.

Honorable Robert M. McLane,
Mayor of the City of Baltimore:

Sir—The Board of School Commissioners respectfully submits the Seventy-fifth Annual Report of the condition of the public schools of the City of Baltimore during the year ending December 31, 1903.

SCHOOL ACCOMMODATION.

The completion, in September, 1903, of four new buildings and of two large additions to existing buildings afforded accommodation for more than five thousand pupils. This has been a great relief to the former congested condition of the schools, and has enabled the Board to dispense with some of the rented buildings recently in use, though it will be necessary, from time to time, to rent other buildings as the needs of the various localities require. The Building Inspector has made important repairs and improvements during the year in many of the old buildings. In quite a large number furnaces have been installed in place of stoves and other sanitary conditions have been greatly improved. On the whole, it is safe to say that the condition of the school buildings was never so good as it is now.

THE TRAINING SCHOOL FOR TEACHERS.

The quarters formerly occupied by this school in the Western High School were needed at the beginning of the current school year for the accommodation of the High School classes, and, therefore, it became necessary to remove that

school to rooms in School No. 14, Linden avenue and Wilson street. Practice classes of this school, under charge of critic teachers, are scattered throughout the city, and every pupil, before graduation, has a term of training in actual teaching. The principals report that in their substitute work the training school graduates display marked facility in handling classes as compared with the untrained teachers formerly available. Twelve of those who finished the training school course last June have already been elected as regular teachers; and the five young men trained as teachers at the Baltimore City College have also been elected. When the Board decided to require a year of special training for teachers after graduating from the high school, it was feared by some that there would be a falling off in high school attendance and in the supply of teachers. Not only, as will be seen below, has there been no falling off in high school attendance, but so many desire to enter the Training School for Teachers, that it is impossible to fix a high standard for admission and yet have as large a number enrolled in the training schools as the needs of the city warrant.

PROGRESS AMONG THE TEACHERS.

Meetings for consultation among the teachers on principles and methods of teaching have been regularly held during the year. The Board notices with satisfaction that the Report of the Superintendent shows that the timidity that once deterred many of the teachers from free participation in these meetings has largely disappeared, partly through increased familiarity with the methods of discussion, and partly through advance in pedagogical knowledge. Reading on professional subjects is increasing among the teachers and, during the past year, more than a hundred of them have attended summer schools. Study clubs have been organized in many of the groups.

SCHOOL ATTENDANCE.

	1902.	1903.	Increase.
Average attendance.....	53,846	55,353	1,507
Average number belonging...	63,802	66,479	2,677

Considering the schools as a whole, the increase in school attendance has been normal.

Secondary Schools.

There has, however, been a marked increase in attendance during the year in the secondary schools. The greatest increase has been at the Polytechnic Institute, where the number belonging has risen from 258, in 1902, to 362, in 1903. In the Western High School, which reported 807 belonging in 1902, 964 are reported for 1903. The City College reports 70 more than last year, the Eastern High School 38 more, and the Colored High and Training School 25 more. The gain over last year in the five schools is 394, or 17 per cent. On December 31, 1899, there were in all the five high schools 1,991 pupils, excluding pupils of the sixth, seventh and eighth grades attending the Baltimore Polytechnic Institute and the Colored Polytechnic Institute. There are now in all the secondary schools, including the training schools, 2,850 pupils, an increase of 859, or 43 per cent. This remarkable increase cannot be attributed to a correspondingly large increase in total school enrollment, since that has been no more than normal. In the opinion of the Board, it is due to better adaptation of the courses offered to the needs of the pupils. The Baltimore City College diploma, which admits to the Johns Hopkins University without examination, formerly granted at the end of a five years' course, may now be earned in four years, or even less. Those who expect to enter immediately upon business may choose courses adapted to the end which they have in view. Graduates of the Baltimore Polytechnic Institute, who complete the four years' course, are able to enter the second year in higher technical colleges. Graduates of the Eastern and Western High Schools will be able for the first time at the close of this school year to enter college without conditions.

MANUAL TRAINING AND COOKING SCHOOLS.

In June, 1900, when the Board decided to discontinue the admission of sixth grade pupils to the Baltimore Polytechnic Institute, that school showed an enrollment of 391 pupils of grades six, seven and eight. Those then in the school were allowed to continue; but provision was begun to supply the elementary schools generally with the same facilities for manual training which at that time were within the reach of but few. At present five manual training centres are in operation, in which 1,344 boys enjoy these advantages. The Board hopes to make such further extension of elementary manual training that, before the choice of a high school has to be made, all boys in the seventh and eighth grades may have opportunity to test their aptitudes in this direction, and thus be able to decide intelligently whether to prepare for technical pursuits, for business life, or for professions. Seven hundred and seventy-eight girls of the seventh and eighth grades are receiving instruction in practical cooking at four cooking centers, or kitchens.

COLORED SCHOOLS.

The policy of the city, as expressed in two ordinances passed with several years' interval between them, has been declared in favor of placing colored faculties in charge of colored schools when possible. Considerable progress has been made in the last two years in this direction. At present only five colored schools have white faculties, and it is thought that in two or three more years a sufficient number of colored teachers will be trained to supply all of these schools. Colored schools Nos. 107, 110 and 116 are used as practice schools. In these, graduates of the Colored High and Training School spend an additional year receiving instruction in theory, while at the same time having practice in teaching regular classes under ordinary conditions.

STATISTICS.

The whole number of schools of various grades during the year was: elementary 105, secondary 5, total 110, under 1,608 teachers, classified as appears in the Report of the Superintendent of Instruction. In addition to the above, there are 23 supervising principals and 57 special teachers, including the supervisor and three assistant supervisors of music, 14 teachers of drawing, 24 teachers of sewing, 8 teachers of physical culture, 3 teachers of cooking, and 4 teachers of manual training. The whole number of enrolled pupils, as of December 31, 1903, was 67,368; average number belonging, 66,577. The average attendance was 55,353, and the whole number attending school during the year was 83,297. The average annual salary of the teachers during the year was $615.85, and the average per capita cost of education in all the schools, based on the enrollment and total expense, was $20.07. In the elementary schools the average cost per pupil was $18.71. In the several high schools it was as follows: Baltimore City College, $72; Eastern High School, $44.47; Western High School, $34.57; Polytechnic Institute, $76.19; Colored High and Training School, $68.

The estimate submitted and the amount appropriated by the City Council for current expenses for 1903 was	$1,293,579 50
The amount received from the State for books was	55,184 70
Total received for current expenses	$1,348,764 20

The amounts expended were as follows:

For office salaries	$10,382 28	
For office expenses	1,500 00	
For day school salaries	1,145,015 84	
For day school expenses	127,432 13	
For night school salaries	8,498 75	
For night school expenses	497 68	
For free text-books	55,150 22	$1,348,476 90
Balance		$287 30

There are 125 houses occupied by the schools, of which 104 are owned by the city and 21 are rented. The amount paid for rented houses during the year 1903 was $12,175.04.

CHANGES IN THE TEACHING FORCE.

Eighty-two vacancies have occurred in the teaching force since January, 1903, of which 7 were caused by death, and 75 by resignation. The names of teachers elected to the City College and High Schools are as follows:

Baltimore City College—Percy L. Kaye, English and History; John Lorett, Gymnastics; J. B. Crenshaw, German, French and English; J. D. Rodeffer, English; C. C. Plitt, transferred from Elementary force as Laboratory Assistant.

Eastern High School— Bettie McKibben, Drawing; transferred from supervisory force.

Western High School—Elize Cuendet, French; Irene Emmons, German and Algebra; Mary E. G. Lentz, Botany; Lucy Murray, Physics and Geography; Mary B. Rockwood, Latin; Gertrude V. Hast, Mathematics.

Baltimore Polytechnic Institute—George P. Von Eiff, Laboratory Assistant; William F. Debaufre, Assistant; Warren S. Seipp, Shop Assistant; Irving L. Twilley, English.

Colored High and Training School—Helen Wingate, Cooking; Thomas W. Turner, Assistant; Margaret P. Gregory, Assistant; Dwight O. W. Holmes, Physics; Beulah C. Wilder, Assistant in Industrial Department.

The competitive examinations required by law have been held at regular intervals for teachers in the ordinary teaching force, and those who attained the required standing have been added to the eligible list in the order in which their names appeared on the report of the examinations.

The warm interest shown by yourself and the members of the City Council and the various city boards and departments has greatly furthered the work committed to this Board. The zeal and intelligence and the unflagging diligence shown by the Superintendent of Public Instruction and his assistants, and by the other officers of the Board, which have been more than once publicly recognized by the Board, have been undiminished during the past year.

I have the honor to be,

Very respectfully yours,

JOSEPH PACKARD,

President of the Board of School Commissioners.

In Memoriam.

The following named died during the year:

March 22—Mrs. Anna P. Tudor, Assistant in Western High School.

April 17—Mrs. Anna C. Peed, Assistant in No. 43 School.

May 7—Mr. Charles H. Anderson, Assistant in No. 118 School

June —Elizabeth M. Pierce, Assistant in No. 43 School.

October 25—Catharine H. Worthington, Assistant in No. 96 School.

October 26—Wm. T. Markland, Principal Group B.

December 29—Annie B. Davidson, Teacher of Drawing.

SECRETARY'S STATEMENT

—OF THE—

Accounts of the Public Schools for 1903.

The amount estimated by the Board for the current expenses of the schools for 1903, all of which was appropriated by the Mayor and City Council, was $1,293,579 50
Amount from the State for Free Books 55,150 22

Total $1,348,729 72
Amount expended 1,348,476 90

Amount unexpended $252 82

Itemized as follows:

OFFICE SALARIES.

Amount appropriated $10,600 00
Amount expended 10,382 28

Amount unexpended $217 72

OFFICE EXPENSES.

Amount appropriated $1,500 00
Amount expended 1,500 00

Amount unexpended .....

DAY SCHOOL SALARIES.

Amount appropriated $1,145,018 00
Amount expended 1,145,015 84

Amount unexpended $2 16

DAY SCHOOL EXPENSES.

Amount appropriated $127,437 50
Amount expended 127,432 13

Amount unexpended $5 37

NIGHT SCHOOL SALARIES.

Amount appropriated	$8,524 00
Amount expended	8,498 75
Amount unexpended	$25 25

NIGHT SCHOOL EXPENSES.

Amount appropriated	$500 00
Amount expended	497 68
Amount unexpended	$2 32

There was brought forward from 1902 a balance to furnish two new buildings amounting to $15,106 80
Expended of this amount 15,106 80

Unexpended .....

There was also an appropriation to furnish five new buildings amounting to $38,500 00
Amount expended 26,864 10

Amount unexpended $11,636 90

This amount is carried forward to 1904.

FREE TEXT-BOOKS.

The amount brought forward from 1902 for account of Free Text Books was	$ 1,579 34
Amount received from the State August 1	53,605 36
Total	$55,184 70
Amount expended	55,150 22
Amount unexpended	$34 48

Average annual salary of teachers $615 85

RECEIPTS FOR CURRENT EXPENSES.

From City Collector, taxes	$1,061,737 86
State Treasurer, taxes	281,937 63
Non-resident pupils	4,637 13
Sale of old materials	79 81
Interest.	84 47
	$1,348,476 90

The per capita cost, as here given, is based on the expenditure and the number on roll December 31, 1903:

PER CAPITA COST.

For all the schools	$20 07
" " Secondary Schools	56 09
" " Elementary Schools	17 17

Itemized:

For Baltimore City College	$72 00
" Eastern High School	44 47
" Western High School	34 57
" Polytechnic Institute	76 19
" Colored High and Training School	68 00
" Group A	17 30
" " B	18 42
" " C	18 02
" " D	14 02
" " E	19 38
" " F	16 75
" " G	12 92
" " H	18 22
" " I	16 68
" " J	15 03
" " K	20 62
" " L	16 66
" " M	17 91
" " N	16 57
" " O	15 41
" " P	19 13
" " Q	18 38
" " R	17 80
" " S	15 96
" " T	17 73
" " U	18 07
" " V	18 27
" " W	23 24

The following tables show:

Table B—The location of schools, cost, etc.

Table A—Itemized expenditures, etc.

Table C—Rented buildings, locations, etc.

H. M. Cowles, *Secretary.*

TABLE B.

Schools	Locations.	Size of Lot.	Amount of Ground Rent.	Paid on Account of Lots.	Size of Building.	Cost of House.	Erected.
Baltimore City College	Howard, opposite Centre	208^{6} x 260	$4,600 00	$50,000 00	155^{10} x 221^{8}	$203,639 00	1896
Eastern High	Side lot and rear building	39 x 180	75 00	15,000 00	51 x 58	.....	.....
	Aisquith and Orleans	102 x 210	540 90	2,651 50	102 x 56	80,000 00	1868
Western High	McCulloh and Lafayette avenue	238^{7} x 230	.....	70,666 66	86^{5} x 191^{11}	132,000 00	1895
Polytechnic Instit'te	Courtland, near Saratoga (old)	82 x 90	.....	6,437 75	44 x 90	18,000 00	1868
	Courtland, near Saratoga (new)	62^{6} x 90	220 00	10,000 00	54 x 90	25,000 00	1890
	Courtland, near Saratoga (addit'n)	37^{6} x 90	.....	10,000 00	.....	.....	.....
Colored High	Pennsylvania ave. and Dolphin	189 x 80(110)	1,147 50	.....	56^{4} x 138	26,000 00	1893
School No. 1	N. E. corner Fayette and Greene	97 x 102	204 00	9,000 00	83 x 96^{7}	25,000 00	1880
" 2	Gough and Stiles	75 x 92	250 00	3,500 00	32 x 55	9,000 00	1854
" 3	Eastern and Montford avenues	100 x 150	350 00	.....	52 x 136	24,000 00	1880
" 4	Hanover and Lee	105 x 81	270 00	4,000 00	92 x 92	35,000 00	1896
" 5	Broadway and Ashland avenue	120 x 120	600 00	.....	60 x 113	24,000 00	1876
" 6	Ann, near Canton avenue	63 x 140	157 50	6,800 00	46 x 100	14,800 00	1878
" 7	Mullikin, near Aisquith	74 x 100	.....	.....	45 x 65	5,000 00	1864
" 8	Caroline, near Lombard	105^{5} x 150	351 34	6,200 00	94^{7} x 59^{7}	18,000 00	1888
" 9	S. W. corner Fayette and Greene	77^{6} x 170	1,094 75	.....	62 x 140	27,000 00	1875
" 10	Hollins, near Schroeder	60^{7} x 134	200 00	.....	46 x 70	6,000 00	1855
" 11	Gilmor and Mosher	126^{3} x 156^{11}	757 00	.....	57^{9} x 108	30,000 00	1886
		.....	.....	.....	30 x 105	.....	1889
" 12	Barre and Warner	67 x 120	268 00	.....	55 x 74	16,000 00	1870
" 13	Patterson Park ave. and McElderry	155 x 115	530 00	.....	55 x 105	21,000 00	1890
" 14	Linden avenue and Wilson	105 x 150	840 00	.....	55 x 117	20,000 00	1882
" 15	Saratoga and Carrollton avenue	100 x 150	700 00	.....	50 x 120	19,000 00	1872
" 16	Harford and Ashland avenues	105 x 158	790 00	.....	56 x 113	19,000 00	1876
" 17	Light and Poultney	62^{1} x 122	217 00	800 00	50 x 72	10,000 00	1875

School No. 19	Hollins, near Monroe	140 x 129	700 00		54 x 112	18,000 00	1877
" 20	Eden and Preston	100 x 207	592 00	6,000 00	51 x 167	35,000 00	1868
" 21	Pennsylvania avenue and Robert	80 x 155	384 00		50 x 80	16,000 00	1869
" 22	Ramsay, near Scott	71 x 128^{6}	177 50		45 x 95	10,000 00	1855
" 23	Gough and Wolfe	75 x 110	150 00	2,400 00	57^{9} x 104	19,000 00	1886
" 24	Fait avenue and Patuxent street	150 x 100		7,500 00	77 x 86	21,000 00	1890
" 25	Caroline, near Canton avenue	129^{6} x 110		14,962 50	93 x 90	25,000 00	1892
" 26	Orleans, near Bond	84 x 75	126 00	4,500 00	50 x 65	15,000 00	1874
" 27	Fayette and Chester	92 x 120	274 50		48 x 72	18,000 00	1869
" 28	Battery avenue and Clement	75 x 82	270 00	1,000 00	46 x 82	15,000 00	1869
" 29	Sharp, near West	114 x 155	570 00		55^{9} x 104	21,600 00	1886
" 30	Hollins, near Monroe	150 x 129^{6}	750 00		55 x 82	16,000 00	1874
" 31	Schroeder and Peirce	60 x 122	228 00	2,500 00	57^{4} x 102	21,000 00	1890
" 32	Guilford avenue and Lanvale	80 x 154		11,800 00	67 x 98	21,000 00	1890
" 33	Light and Clement	100 x 100		10,000 00	67 x 98	21,000 00	1890
" 34	Carey and Columbia avenue	100 x 160	385 00		113 x 58	30,000 00	1896
" 35	Hanover and Winder	132 x 198		6,700 00	48^{6} x 114^{2}	28,297 00	1895
" 37	Biddle and Patterson Park ave	165 x 150		8,500 00	89 x 61	25,000 00	1896
" 38	Chesapeake and Hudson	80 x 100			32 x 50	5,000 00	1853
" 39	Carrollton and Riggs avenues	97^{1} x 157		7,000 00	52^{4} x 97^{5}	19,000 00	1888
" 42	Broadway and Bank	100 x 141	244 44		101 x 39	30,000 00	1888
	Broadway and Bank, rear bldg				52 x 87		
" 43	High, near Fayette	80 x 167	900 00		50 x 145	28,800 00	1875
" 44	Sharp, near Montgomery	100 x 155	675 00		56 x 84	18,000 00	1869
" 45	Greenmount avenue and Eager	66 x 150	600 00		55 x 100	17,000 00	1872
" 46	Division, near Lanvale	104^{3} x 171^{3}	800 00		55 x 120	21,000 00	1877
" 47	Eastern avenue and Patuxent	145 x 300	1,001 00		80 x 143	50,000 00	1898
" 48	Hollins and Monroe	Old lot			55 x 104	21,000 00	1890
" 50	Gorsuch av. and Taylor, Homest'd.	42 x 90		1,000 00	35 x 50	4,500 00	
" 51	York Road, Waverly	100 x 200		4,000 00	35^{6} x 90	14,500 00	
	York Road, rear building				50 x 33		
" 52	Oak and Fifth (24th)	60 x 122		4,000 00	50 x 60	10,000 00	
" 53	St. Paul and Twenty-sixth	100 x 123		10,000 00	100 x 123*	60,000 00	1897
" 54	Huntingdon avenue, near Charles	100 x 150		7,000 00		18,000 00	1890
" 55	Chestnut and Fourth avenue	176^{8} x 230		5,000 00	55 x 105	21,000 00	1899

TABLE B—Continued.

Schools.	Locations.	Size of Lot.	Amount of Ground Rent.	Paid on Account of Lots.	Size of Building.	Cost of House.	Erected.
School No. 57	Hampden, Merryman's Lane	$127^5 \times 32^6$	$ 50 00		$24^6 \times 48$	$ 700 00	
" 58	Woodberry avenue, Woodberry	45 x 130	22 50		37 x 96	10,000 00	
" 60	Francis and Clifton, new	150 x 150	480 00		$64^4 \times 105$	25,000 00	1893
	Clifton, on Clifton avenue, old	40 x 150		$2,000 00	40 x 90	4,000 00	
" 61	Linden avenue and Konig	165 x 150	1,155 00		$136^8 \times 70^5$	54,000 00	1897
" 62	Walbrook avenue and Smallwood	150 x 210		5,000 00		64,872 00	1903
" 63	Ninth and Northwest, Walbrook	128 x 194		4,718 66	$66^5 \times 106$	25,000 00	1894
" 65	Calverton, Bloomingdale Road	75 x 169		1,500 00	60 x 100	15,500 00	1893
" 66	Carroll, Old Frederick Road	60 x 225	360 00	2,000 00	52 x 27	4,500 00	
" 67	Old Fred'k Rd. and Fairview ave.	150 x 257	360 00		67 x 92	15,000 00	1892
" 68	Millington avenue and Lehman	80 x 200	290 00		64 x 119	21,000 00	1892
" 70	William and Warren avenue	70 x 140	175 00		44 x 103	13,000 00	1850
" 71	Bond and Jefferson	70 x 152^3	19 00	8,700 00	56 x 116	20,000 00	1884
" 72	Ridgely, near Fremont	124 x 155	620 62		73 x 125	25,000 00	1877
" 73	Aisquith, near Lexington	80 x 180	25 00	17,100 00	44 x 100	17,000 00	1870
" 74	Cromwell and Twenty-second	200 x 297		7,000 00		69,029 00	1903
" 75	Carrollton avenue and Lexington	$49^6 \times 103$		10,000 00	49 x 135	20,000 00	1886
	Carrollton ave. near Lexington	100 x 160^4	400 00		55 x 107	20,000 00	1860
" 76	Hull and Clement, Locust Point	100 x 155^3	350 00		56 x 113	18,000 00	1882
" 77	Washington, near Fayette	93 x 190	581 25		52 x 119	20,000 00	1871
" 78	Harlem avenue and Monroe	85 x 249^6	830 68		$56^4 \times 143^6$	30,500 00	1893
" 79	Park avenue and Hoffman	120 x 150	1,020 00		100 x 147	35,000 00	1892
" 80	Eden and Federal	$180^6 \times 100$		8,000 00	60 x 124	33,000 00	1890
" 81	Gilmor and Presstman	$102^5 \times 155$	620 00		55 x 121	32,000 00	1876
" 82	Mulberry, near Fremont	$87^8 \times 134$	350 67		54 x 85	15,000 00	1868
" 83	Lakewood avenue and Orleans	145 x 200		9,166 66		58,897 00	
" 84	Heath and Johnson	$148^2 \times 157^{10}$		10,000 00		58,957 00	

School No. 91	Argyle avenue, near Lanvale	80 x 140	$ 315 00	.....	45 x 68	$13,000 00	1858
" 92	Charles and Ostend	74^{6} x 219^{2}	372 50	.....	56 x 150	28,000 00	1882
" 93	Baltimore, near Aisquith	120 x 170	1,300 00	$5,000 00	54 x 118	28,000 00	1879
" 94	Chase and McDonogh	80 x 223	501 75	.....	56 x 183^{2}	30,500 00	1882
" 95	Lexington, near Fremont	81 x 220^{6}	.....	15,000 00	60 x 124	25,000 00	1890
" 96	Ramsay and Smallwood	177 x 165^{6}	.....	4,000 00	53 x 135	36,885 00	1895
" 99	North avenue and Washington	80 x 150	.....	5,000 00	66 x 120	25,000 00	1891
" 100	Saratoga, near Charles	66 x 193	600 00	16,000 00	52^{2} x 126^{3}	25,000 00	1888
" 101	Jefferson, near Caroline	83^{6} x 80	200 00	1,350 00	32 x 80	5,000 00	1855
" 102	Howard and Montgomery	50 x 104	120 00	8,000 00	40 x 64	6,000 00	1872
" 105	Rogers avenue, near Lexington	75 x 105	25 00	5,125 00	49 x 80	13,000 00	1874
" 106	Hill, near Sharp	99 x90(155)	192 00	11,300 00	76^{9} x 133^{11}	27,000 00	1893
" 107	Biddle, near Pennsylvania avenue	70 x 150	70 00	5,000 00	40 x 92	10,000 00	1870
" 108	Caroline, near Bank	76 x 90	70 00	4,800 00	45 x 65	8,000 00	1867
" 109	Barre, near Entaw	65 x 112	300 00	.....	40 x 80	10,000 00	1854
" 110	Waesche, near Fremont	143^{9} x 129	480 00	.....	59 x 129	22,000 00	1877
" 111	Bond and Ashland avenue	80 x 80	130 00	.....	40 x 54	7,000 00	1864
" 112	Carey and Chappell	135^{9} x 142	630 00	.....	109 x 65	40,408 70	1897
" 113	Girard avenue and Sherman Place	120 x 124	.....	7,200 00	68^{5} x 77^{4}	23,968 00	1895
" 114	Fremont, near Lombard	74 x 150	.....	12,000 00	44 x 65	8,000 00	1843
" 114 (new)	Saratoga and Mount	156^{10} x 151	.....	10,000 00	.....	62,464 00	.....
" 115	Merryman's lane, Waverly	87 x 240	.....	1,000 00	71 x 24	1,000 00	.....
" 116	Druid Hill avenue, near Biddle	75 x 100	150 00	.....	44 x 100	12,000 00	1841
Lot	Summit and Monroe	72^{4} x 245	.....	9,500 00	.....	.....	.....
Lot	Ashland avenue and Chester	133 x 200	959 75	.....	.....	.....	.....
Lot	Pennsylvania avenue, near Biddle	92^{2} x 200	.....	26,500 00	.....	.....	.....
Lot No. 62	Walbrook avenue and Smallwood	150 x 210	.....	5,043 75	.....	.....	.....

Total value of school buildings	$2,693,876 00
Amount paid on account of lots	461,872 14
Total of buildings and sites	$3,155,748 14

TABLE A.—Itemized Expenditures of the Several Schools and Groups.

Names.	DISTRIBUTION OF CHARGES.											Totals
	Salaries.	Rents.	Stationery.	Heating Apparatus and Repairs	Furniture.	Fuel.	Repairs.	Incidentals.	Free Text Books.	Furnishing 2 New Schools.	Furnishing 5 New Schools.	
Office	$10,382 28		$ 581 56		$159 65		$6 55	$752 24				$11,882 28
General expense	37,345 95		3,785 84	$6 11	51 25	$6,425 65	5 75	7,969 25	$4,087 50	$515 75	$754 63	60,947 68
Drawing	9,161 10							2 50				9,163 60
Sewing	12,543 42							3 80				12,547 22
Physical Culture	5 367 25							2 50				5,369 75
Attendance Officers	8,725 89											8,725 89
Manual Training Centre No. 1	1,437 28	$220 00				52 91	3 08	383 68				2,096 95
Manual Training Centre No. 2	1,384 00						7 30	392 44				1,783 74
Manual Training Centre No 3	724 00							9 23				733 23
Cooking School No. 3	94 50							92 24				186 74
Manual Training Centre No. 4	100 00							6 85			168 98	275 83
Cooking School No. 6										134 55		134 55
Baltimore City College	42,148 17		513 61		15 75	754 11	199 19	2,799 57	1,856 60			48,287 00
Eastern High School	16,512 37		87 58	5 18	32 00	747 74	111 62	211 93	481 76			18,190 18
Western High School	28,422 51		565 84		21 50	717 32	77 48	1,101 06	2,425 51			33,331 22
Baltimore Polytechnic Institute	23,159 01		396 50			554 94		2,494 19	975 72			27,580 36
Colored High and Training School	29,037 83	33 34	469 87		125 50	943 61	23 90	1,040 01	807 17			32,481 23
Group A	36,948 86		730 30			1,958 60	39 35	344 20	1,492 07			41,513 38
B	40,211 00		936 87	109 31	69 98	2,519 75	192 40	588 79	1,721 38			46,349 48
C	45,200 78		767 41	5 90	146 50	2,323 06	174 47	339 55	1,810 55		6,356 60	57,124 82
D	37,825 42	880 00	804 75	104 41	159 31	1,719 95	157 55	549 21	1,521 75			43,722 35
E	44,909 79	2,824 13	916 23	41 08		1,903 94	37 29	151 09	1,777 87		6,336 80	58,898 22
F	41,082 34	420 00	833 99	100 80	324 44	2,191 09	164 63	255 79	1,878 52			47,251 60
G	40,898 59	66 66	605 70	104 68	37 19	1,790 40	187 93	277 67	2,771 01			46,739 83
H	37,752 52	540 00	969 78	78 59	374 38	1,896 69	126 48	337 59	1,563 99			43,640 02
I	41,118 82	333 33	1,087 90	20 71	19 00	1,935 71	181 33	236 85	2,400 42		7,046 38	54,380 45
J	44,261 52	833 32	844 66	40 48		1,891 69	217 12	386 29	2,068 91			50,543 99
K	46,015 56	636 00	1,305 18	50 02	116 13	1,921 76	307 04	361 76	3,095 93	7,717 66	119 99	61,647 03
L	11,579 62		153 89	12 65		624 86		67 65	496 85			12,935 52
M	50,946 01		926 94	23 26	55 71	2,178 99	48 16	864 86	1,780 30			56,824 23
N	44,346 24		804 52	37 89	166 25	1,606 27	130 27	161 81	1,918 85			49,172 10
O	41,499 95	1,375 00	1,151 15	23 84	44 25	2,058 04	111 02	375 22	1,838 42		67 31	48,544 20
P	33,227 99	875 00	603 41	43 09	24 75	2,429 04	215 99	168 80	1,412 30			39,000 37
Q	44,806 38	360 00	923 23	45 31	93 00	3,141 75	382 99	325 74	1,737 51			51,815 91
R	38,864 61	75 00	645 51	39 90	25 23	2,463 78	322 23	108 12	1,643 92			44,188 30
S	31,523 58		894 16	95 41	32 35	1,805 54	31 91	255 58	2,468 63			37,107 16
T	34,538 85		549 79		74 37	2,041 71	112 78	177 11	1,163 08			38,657 69
U	41,066 96		623 30	81 46	43 46	2,556 29	301 41	507 08	2,983 33			48,163 29
V	43,329 54	1,795 00	705 80	37 61	100 75	2,667 68	140 73	246 15	2,270 44		6,036 24	57,329 94
W	30,026 97	908 26	506 85	75	88 53	1,876 01	28 75	133 74	1,245 60	6,738 84	13 00	41,567 30
X	26,870 66		402 37	43 17	104 75	1,521 44	49 24	206 61	1,439 33			30,637 57
Night High School	1,439 00							76 50	15 00			
Night School No. 30	376 00							5 40				
Night School No. 42	886 00							54 20				
Night School No. 43	908 25						15 20	33 10				
Night School No. 44	622 00							63 90				
Night School No. 55	688 00							11 50				
Colored High Night School	1,405 50							108 72				
Night School No. 101	586 00							9 30				
Night School No. 102	276 50							6 20				
Night School No. 106	249 50							26 60				
Night School No. 112	630 00							27 55				
Night School No. 113	432 00							22 90				
Bohemian Night School								36 61				
Grand total	$1,163,896 87	$12,175 04	$25,094 49	$1,151 61	$2,505 98	$59,220 32	$4,111 14	$25,171 23	$55,150 22	$15,106 80	$26,899 93	$1,390,483 63
For current expenses deduct the amount of the last two columns for furnishing new buildings												42,006 73
Current expenses												$1,348,476 90

TABLE C.

SHOWING LOCATION OF RENTED BUILDINGS, BY WHAT SCHOOLS OCCUPIED, AMOUNTS OF YEARLY RENTALS, AS OF DECEMBER 31, 1903.

No.		
10	1724 Frederick avenue	$600
10 Branch	833 Hollins street	600
49	808 North Calvert street	540
50 Branch	Southeast corner Washington and Harrison streets	156
51 Branch	Gilmor lane, near York road	480
56	Hickory avenue, near Thirty-seventh street	600
59	Park Heights avenue	360
64	North Walbrook	360
90	1846 North Gay street	1,000
93 E. Branch	Baltimore street, near Aisquith	960
97	117 and 119 Jackson Place	670—550
98	Lombard and Catharine streets	600
103	Stricker and Mulberry streets	360
103 Branch	Edmondson avenue and Bloomingdale road	300
111 Branch	Madison and Bond streets	420
114	1611 West Saratoga street	240
114 Branch	Mt. Olivet lane	60
115 Branch	Barclay street, near Merryman's lane	120
118	Gold and Calhoun streets	450
M. T. C., No. 1	Hopkins avenue and Federal street	240
Colored High and Training	Dolphin and Etting streets	200

REPORT

OF THE

Superintendent of Public Instruction.

BALTIMORE, January 1, 1904.

To the Board of School Commissioners:

GENTLEMEN—I have the honor to submit the Annual Report of the condition of the Public Schools of Baltimore for 1903.

SCHOOL ATTENDANCE.

The increase in school attendance, considering the schools as a whole, has been normal. The average attendance in 1902 was 53,846; in 1903 the average attendance has been 55,353. The increase is 1,507.

ATTENDANCE IN SECONDARY SCHOOLS.

One of the most noticeable facts in the history of the schools for 1903 is the marked increase in attendance in the secondary schools. The greatest increase has been in the Baltimore Polytechnic Institute, where the number belonging has risen from 258 in 1902 to 362 in 1903, a gain of forty per cent. Next in order of increase comes the Western High School, which reported 807 belonging in 1902 and now reports 964, a gain of 19.4 per cent. The Baltimore City College reports 70 more than last year; the Eastern High School 38 more, and the Colored High School 25 more. The gain over last year for the five schools is 394, or 17 per cent., while the normal increase for the schools, as a whole, is slightly less than 3 per cent. per annum. There is an increasing tendency to go from the grades to the High School

and to complete a course. More pupils than formerly are appreciating the practical value of secondary school training, and are remaining in school to be benefitted by it.

Four years ago, December 1, 1899, there were in all the high schools 1,991 pupils. (This number does not include pupils of grades six, seven and eight, then attending the Baltimore Polytechnic Institute, and the Colored Polytechnic Institute.) There are now in all secondary schools, including training schools, 2,850 pupils, an increase in four years of 859, or 43 per cent. This remarkable increase cannot be attributed to a correspondingly large increase in total school enrollment since that increase has been but normal. Is it not due to the better adaptation of the courses offered to the needs of the pupils? The Baltimore City College diploma, which admits to the Johns Hopkins University without examination, was formerly granted at the close of a five years' course. It may now be earned in four years, or even less. By early acquainting themselves with the entrance requirements of the college they wish to attend, boys may so choose their courses as to greatly economize their time. Pupils, who expect to devote themselves to business pursuits, may choose courses adapted to the end which they have in view. The same may be said of other classes of students. Graduates of the Baltimore Polytechnic Institute, who complete the four years' course, are able to enter upon the second year's work in higher technical colleges. In the Eastern and Western High Schools it is expected that our graduates will be able for the first time, at the close of this scholastic year, to meet the college entrance requirements of the Middle States and Maryland. In these schools girls are given the same opportunities to prepare for commercial pursuits that are furnished to boys in the City College.

THE TRAINING SCHOOL FOR TEACHERS.

At the close of school, in June, it became necessary to remove the Training School for Teachers from its commodious

quarters in the Western High School, the rooms being needed for high school classes. It now occupies rooms in School No. 14, Linden avenue and Wilson street. The practice classes for this school, twenty-two in number, are scattered throughout the city. Wherever a suitable critic teacher was found, two practice classes were organized. There are some advantages in having the training school work scattered. The school is thus brought into sympathetic relations with the elementary schools in which its graduates will later be regular teachers; but, on the other hand, the time taken by the training school teachers in their visits of inspection to so many scattered classes, makes a serious inroad upon the time needed for the work of instruction at the training school proper. The results, however, have been most gratifying. Principals report that in their substitute work the training school graduates display marked facility in handling classes, as compared with untrained high school graduates formerly available as substitutes. They have not the all-around skill of experienced teachers. That is not to be expected, nor do all show equal ability, but they go into the school rooms in sympathy with child nature, and with definite plans for interesting children in their work.

When the decision was made to require those who expect to teach to spend a year in training after high school graduation, it was feared by some that the lengthening the period of preparation for teaching would cause a falling off in high school attendance, and that, in consequence, the supply of teachers would prove inadequate. It is gratifying to note that this is not the case; but that so many desire to enter the training schools for teachers, that we are able to fix a high standard for admission and yet have an enrollment quite as large as the needs of the schools warrant.

EXAMINATIONS AND GRADED LISTS.

There are now in attendance at the three training establishments 125 pupils. While the training schools must be

depended upon for the greater part of the supply of teachers, quite a number who have not attended the training schools, but who are eligible under our rule requiring high school graduation and two years' successful experience, pass the examinations and secure places on the list.

At the close of the year 1902 there were fifty-six names on the graded lists. Examinations held during the year under prescribed rules resulted in placing 128 additional names on the graded lists. Sixty-eight teachers have been elected to the regular service during the year; eight, having found employment elsewhere, have withdrawn their names. There are now on the graded lists 108 teachers—85 white, 23 colored. All of the colored teachers are serving the probationary period in actual vacancies. The colored list is, therefore, practically exhausted. In addition to the above, the graded list includes ten teachers of sewing, two teachers of cooking, and one teacher of manual training.

THE AIM OF THE TRAINING SCHOOLS.

The professional training of teachers is essential for three reasons: First, for the increase of the teacher's efficiency of service to the city by the better knowledge given of general principles and their application; second, for the uplift given the teacher herself in being able to work upon an intelligible basis, and for a high purpose, rather than by experiment and in uncertainty as to the definite purpose to be gained; and, third, for the dignity of a profession than which none is greater, and yet which, because of unfortunate conditions, is generally misapprehended and misrepresented.

It is as necessary for a teacher to be thoroughly acquainted with the laws of mental development and the means by which those laws may be observed, as for a physician to know the laws of physical development. Of the two, the teacher deals with the more delicate and sensitive material, and with that which to the ordinary observer is not amenable to any law but that of chance. An injury done this delicate mechanism

through ignorance cannot later be overcome, however good the motive of the doer. Mind and brain are not to be treated with medicines or assisted in any tangible way. As different centers ripen and reach maturity, they are either developed by proper treatment and permanently re-enforce mental power, or they atrophy from misuse, or eke out a half life with minor efficiency, according to skill in handling. No sporadic and empirical effort can do for the child in his mental unfolding what skill and judgment based upon knowledge of law can do.

A system of schools needs not only teachers who work well and faithfully from day to day, but who also keep abreast of the times, and who interpret oncoming movements by the light of present knowledge of mental development and the child's needs in its various phases. Whatever elevates the individual teacher tends at the same time to elevate the mass, and, with the recognition of increased dignity and efficiency of the great body of teachers, must come an increase in the emoluments and privileges of the truly professional.

Less sentimentality and more sentiment regarding the nature and future of the child is a tendency to be encouraged by every legitimate means. Froebel pleads for a natural environment for the child in the kindergarten, suggesting that the soul develops naturally and freely only in an atmosphere free from self-consciousness. The same condition is essential throughout the school life of the child. The soul is priceless, however encased and surrounded, and deserves the best possible conditions under which to develop. Accidents of appearance, birth, breeding, personal peculiarities, should be considered as accidents, and in no way be permitted to interfere with individual progress in individual directions, as far as may be.

There is such intimate relation between brain and muscle that the human being knows best by doing, as the old adage attests. Just how necessary doing is to complete knowledge

has but recently been made plain to the teaching world, and with this new light come many plans for the promotion and perfection of instruction by having the child construct and thus visibly interpret situations and conditions in history, geography, and various other studies. No movement of recent years has had greater significance nor is of more importance to the individual. In its essence it is educational. The clearest thinker is the one who is able to carry thoughts and plans into exercise, to "apply old knowledge to new conditions."

PROFESSIONAL PROGRESS AND SALARIES.

Meetings of teachers for consultation on principles and methods of teaching have occurred regularly during the year. That excessive timidity that once deterred so many teachers from active participation in teachers' meetings has largely disappeared, partly, through becoming accustomed to taking part and partly through increase in pedagogical knowledge obtained through professional reading and increasing thoughtfulness in teaching. More than a hundred teachers have attended summer schools. In many of the groups of schools there are study clubs. One hundred and forty-five teachers have had their salaries advanced on the merit basis from $504 to $600 during the past year. The method employed in determining merit was fully described in my last annual report. As I said in that report, "No other investment can possibly bring the city greater returns than that which is made in relieving the anxiety of teachers about 'making ends meet.' The investment is, therefore, for our children."

In my judgment, it would be true economy, as well as justice, to fix the minimum salary of all teachers, who, after five years' experience, are reported satisfactory, at $600 instead of $504, and to make the salary of the special merit list $700. It would be true economy, because a higher standard of teaching could be set up than it is possible to insist upon when the salary paid barely meets the necessary

living expenses of the teacher, and does not provide the slightest surplus either for self-improvement or for support in old age. The increasing cost of living has forced itself upon the attention of every one for several years past. The teacher's work, if well done, is peculiarly exhausting. The most nutritious diet and the most favorable conditions for recuperation at the close of the day's work are essential in order that even temper and balanced judgment may be displayed which parents so much appreciate in the treatment accorded their children by the teacher. Furthermore, teachers feel that they must be well dressed in order to maintain their own self-respect and set the proper example in taste and neatness of attire. The school room, with its chalk dust, the dust brought in by the feet of the children, and its numerous desk surfaces and corners with which there is constant contact, is destructive of good clothes.

The $300 starting salary for regular teachers, about which so much was said two years ago, is no longer in existence. That salary was established when teachers absolutely without training or experience were eligible to appointment. It is now the salary of regular substitutes who head the graded list. The first year salary of those teachers who have had both the undergraduate training course given in the last high school year, and the course in the Training School proper is fixed by the rules at $396. In two years such teachers may reach the present regular salary ($504). Pupils now in the Training School will be the first to benefit by this rule, they being the first class credited with two years of training.

There is an exception in the case of kindergarten assistants. When kindergartens were established we were assured that a sufficient number of unpaid assistants from the Kindergarten Training School could be depended upon and that we need not incur any expense for this item. It was soon found necessary to pay a salary in order to secure the services of assistants, and $250 was the sum fixed upon. At this salary it was easy to secure capable assistants from among graduates of the

kindergarten training schools who were pursuing a post-graduate course. Now, that the Kindergarten Association has discontinued its school, different arrangements may be necessary.

Increase in salaries so far made have been due chiefly to the plan of organization adopted by the Board in 1901, and to economies in administration which this plan permitted; economies realized in no small degree through the thoughtfulness and judgment displayed by the principals in arranging the classification of pupils in their several schools. While nearly 1,400 salaries have been advanced during the past three years, and while new features have been added, as manual training and cooking, kindergartens and the training of teachers, the per capita cost of education is actually less than it was in 1899. In that year the average for all schools was $21.74. In 1903 it was $20.07. (See Report of 1899, page 28.)

ELEMENTARY MANUAL AND INDUSTRIAL TRAINING.

When it was decided to discontinue the admission of sixth-grade pupils to the Baltimore Polytechnic Institute there were enrolled in that school 391 pupils of grades six, seven and eight. They were allowed to continue, but plans were made to supply the elementary schools generally with facilities for manual training, then within the reach of but few. There are now in operation five manual training centers, in which 1,344 boys have had advantages formerly limited to less than 400. Further extension of manual training should be made so that before the choice of a high school becomes necessary all boys in the higher grammar grades may have an opportunity to test their tastes and aptitudes in this direction. Parents may then be able to make a wise decision whether to send their boys to the City College or to the Polytechnic Institute. Four cooking centers, or kitchens, have been fitted up for girls of the seventh and eighth grades. Seven hundred and seventy-eight girls are receiving instruction in practical

cookery. All girls in grades above the second are taught sewing one hour each week till they reach classes in which cooking lessons are given.

In grades below the seventh no definite time allotment is made for manual training; but much constructive work is carried on in odd moments saved by industry from the regular studies. It is largely illustrative of points in the regular lessons. In some schools a work table in the corner of the school room, or in the hall, affords facilities that are utilized by one or two pupils at a time in work largely self-directed. The results are crude, judged from the standpoint of the artist, or the mechanic, but the work serves as a most important means of expression, and its value consists in its use in clarifying and vivifying ideas. In directing the work in the five shops I have been assisted by Mr. George M. Gaither, of the Baltimore Polytechnic Institute. Mr. Gaither has planned the equipment for the manual training and cooking centers, and has used vacant periods and the hour from 2.30 to 3.30 P.M. in visiting the manual training centers and the ungraded classes. At the request of teachers he has given instruction in various branches of manual training, such as basketry, chair caning, Venetian iron work and whittling. He has given special attention to the needs of the ungraded classes. As soon as an ungraded class has been formed, Mr. Gaither has given the teacher enough instruction in manual training to enable her to make that work an essential part of the curriculum. Usually other teachers of the group in which the ungraded class is located have desired to receive the lessons at the same time. In mapping out the course in manual training for the shops, Mr. Gaither has had the co-operation of the drawing department, simple mechanical drawing having been taught to pupils of the seventh and eighth grades, so that in the class room they might make working drawings of objects afterwards to be constructed in the shop.

The importance of manual training to those who leave the school at an early age can hardly be overestimated. Seventeen thousand pupils enter the lowest grade of our elementary schools each year; only 1,200 enter the high schools each year. Fifteen thousand eight hundred, therefore, drop out of school somewhere between the first grade and the close of the eighth. Many of them are only moderately successful in ordinary school work. Some of them are so unsuccessful that they are found in the lower grades when so old that the ordinary curriculum does not appeal to them. They are, therefore, irregular in attendance, and often truants and incorrigible. The meagre literary education which such children receive is of little value to them. If, while acquiring the elements of reading, writing, arithmetic, etc., they could be taught to do something with their hands, the school would at least send them out with habits of industry rather than of idleness, and with the ability to do work for which some one would be willing to pay. In Columbus, Georgia, this condition has been met by establishing industrial schools of elementary grade. They are reported as successful and popular. The plan is worthy of serious consideration here. The course of instruction in two or more of our elementary schools might be made quite largely industrial. The schools selected should be in parts of the city where early leaving is most pronounced. The school time would be appropriately divided between occupations and instruction in the fundamental English branches. Attendance at these schools would be optional, as it is at the English-German schools, with this difference, that whereas no parent is urged to send his child to an English-German school, under certain circumstances parents would be strongly urged to send their children to the industrial schools. The success of the English-German schools, under a plan which gives the English branches much less than the full time, suggests the feasibility of substituting industries for part of the work now carried on in certain schools, and without detriment to the regular work.

SHOP AND LABORATORY EXPENSIVE, BUT NECESSARY.

In our elementary schools the shop and laboratory training thus far provided has not been a noticeable factor in the per capita cost of instruction; but, if the city is to provide adequately for the teaching of useful arts, it is but reasonable to be satisfied in the future to pay slightly more than it has in the past been necessary to pay. We hear on all sides the demand for a more practical education than the schools have been giving. The demand is reasonable and should be met, but it must not be forgotten that it is more expensive to teach industries and sciences than to teach reading and spelling, or Latin and Greek, for laboratories and equipment are required and perishable supplies. Teaching from the book is the cheapest and at the same time the least practical teaching. True education must provide for doing.

THE COLORED SCHOOLS.

Industries have a large place in the curriculum of the Colored High School. Every pupil in the school is learning to do something with his hands. Many have become skillful enough to earn money after school hours and on Saturdays by putting in practice what they have learned at school. The most capable among the pupils who enter this school will be needed as teachers. Such pupils are accordingly encouraged to complete the four years' course and afterward to enter the teachers' training class. For them the full course, followed by a year or more of special training as now, is none too much. But the majority of those who enter the school cannot remain to complete a four years' course; for them a course two years in length, still more largely industrial than that now given, should be provided. Along with the ordinary English branches, they should be taught industries by which they may earn a living. The certificate given, showing proficiency in some specific work as dressmaking, cooking, carpentry, blacksmithing, etc., would aid in securing employment. Industrial courses, as has already been

pointed out, are not as cheap as literary courses. But the kind of education that is cheapest in dollars and cents is not so cheap in the long run as industrial training, if the return to the State through skilled labor is given due weight.

It is possible to report progress in carrying out the fixed policy of the city to secure colored teachers for the colored schools. All but five colored schools now have colored faculties. At the present rate of progress, two more years, possibly three, will be required for the training of a sufficient number of colored teachers for these schools. Schools Nos. 107, 110 and 116 are used as practice schools. Here graduates of the Colored High School spend a year or more receiving instruction in the teaching art while practicing in regular classes under ordinary conditions.

THE ENGLISH-GERMAN SCHOOLS.

The following schools are either wholly or in part English-German schools: Nos. 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 76, 82 and 83. Children who attend them, usually children of German parentage, have their time divided between German instruction and English instruction. The correlation of work in the two languages is such that the English branches do not seem to suffer in the least from neglect. Pupils attending these schools complete the elementary school course in the regular time allotted to it. Judging by the record of the English-German schools, where, if anywhere, the curriculum may be said to be crowded, it is not the number of studies on the program of a school that retards the progress of pupils, but the monotony and dullness which sometimes, unfortunately, characterizes school work. During the past year Dr. Chas. A. A. J. Miller, Principal of Group S, has, with your approval, found time to visit each of these schools, and he has given me valuable advice as to time allotment for German, course of study, distribution of German teachers, etc. Though his group has recently been enlarged, he may still be able to give some time to this special work.

PREPARATORY CLASSES.

At the close of the sixth school year pupils, whose parents wish them to take up the study of Latin and a modern language, may do so, provided they are recommended by their teachers as having the physical and mental power to pursue these studies in addition to the regular studies of the seventh grade. In September, 1902, five preparatory classes were organized, filling rooms then vacant in School No. 1. In September, 1903, it was not possible to accommodate all applicants at School No. 1. Two additional preparatory centers were accordingly opened—one at School No. 74 and one at School No. 62. In the three preparatory centers there are now belonging 216 pupils of the seventh grade and 108 pupils of the eighth grade. On entering the high school they will be credited with the work which they have accomplished in Latin and German or French. The present organization of the high schools is such that the continuation of the work begun in the preparatory classes can be arranged without inconvenience. Preparatory classes are not intended to shorten the child's elementary school course. A pupil who enters the preparatory classes at the end of the sixth year will remain in them two years before entering the high school. The credits gained in the extra studies will, however, count toward high school graduation, and thus the high school course will be shortened for such a pupil to the extent of the credits received in the preparatory classes. There is a saving of time, but the saving of time is not the primary purpose. The primary purpose is to enable a child to take up the study of foreign languages at the time when the verbal memory is most retentive, and when, therefore, a foreign vocabulary can be mastered most easily. It is especially desirable that boys who expect to attend the Polytechnic Institute, where Latin does not form a part of the course, should have an opportunity to get two years of elementary Latin before entering. It will be of very great value to them in their later technical work.

DRAWING, MUSIC AND GYMNASTICS.

These subjects are being taught with increasing success by the regular teachers. They are aided by the supervisors and special teachers, who furnish outlines, give illustrative lessons, make suggestions after observing lessons, hold teachers' meetings, and in various ways help to the same mastery of the so-called special branches that is customary in the ordinary branches. Teachers now in training will need less help in these directions than those who have been long in the service, since these subjects form a regular and essential part of their preparation; meanwhile, much allowance is willingly made for those teachers of experience who find it difficult to acquire a high degree of skill in one or more of these directions.

THE SCHOOL ORGANIZATION.

The present organization of the schools proves to be well adapted to meet both business and educational needs.

The remark is sometimes made that there is now no Board member at hand to adjust some local matter affecting a patron of a given school. Under any organization a principal, who knows all the interests involved on the professional side, is far better able to make prompt and satisfactory adjustment than could a local Board member. The present organization makes it the duty of each of the twenty-four principals to act exactly in this capacity for the convenience and prompt service of the community. In the elementary schools each teacher is directly responsible to the Superintendent through one, and only one intermediate officer, the principal. The vice-principal assists the principal; he does not stand between the teacher and the principal. The two Assistant Superintendents assist the Superintendent; they do not stand between principals and the Superintendent. Any teacher can consult the Superintendent directly about any matter. Hardly a day passes without one or more such conferences, either at the Administration Building after school hours or at the school during school hours. Further opportunity is

afforded for conference with the Superintendent at section meetings of teachers, held on twenty-seven different Friday afternoons each year. The Superintendent attends every one of these meetings, and the opportunity for conference with him without the trouble of a trip to the office is freely availed of by those so disposed. It is not to be supposed that every request that is made to the Superintendent can be granted. He would not be in his responsible position if he had not some definite plans which he believed it for the interests of the schools to see carried out. It is at times, therefore, necessary to adhere to a fixed policy, which teachers here and there, not seeing in advance how the matter will work out, seek to have modified. He must be steady enough of purpose to maintain his policy, or fail to measure up to the requirements of his position. The Superintendent is the responsible executive officer of the Board. His instructions to the teachers are ordinarily given through the principal, who, in turn, must be held responsible under the Board's rules for the proper observance of the directions given.

If teachers desire to place requests before the highest authority—the Board—the process is simple. Any request addressed to the Board must be transmitted by the Superintendent, whether he favors the request or not. It should ordinarily come to the Superintendent through the principal, who, likewise, has no option about transmitting the request. He must transmit it. Principals are given considerable freedom, because upon them devolves a heavy responsibility. For the same reason they in turn give each teacher as much freedom as is consistent with the harmonious and unified work which the school system as a whole should present.

THE EVENING SCHOOLS.

In addition to his supervisory duties in the day schools of the district east of Charles street, Mr. Wise has undertaken the entire supervision of the Evening Schools, a duty shared with him by Mr. McCahan till the School Attendance Law went into effect. Mr. Wise reports as follows:

BALTIMORE, January 1, 1904.

MR. JAMES H. VAN SICKLE,
Superintendent of Public Instruction.

DEAR SIR—

The evening schools have been seriously affected this year by the insufficiency of the amount appropriated for their maintenance.

Since the opening in October it was found necessary to limit the number of teachers, so as not to exceed the amount available for salaries, and to shorten the time the schools should continue in operation from three months to nine weeks. In some of the elementary schools the average attendance in the classes was largely in excess of the number required by the rules, because there was not enough money to employ the requisite number of teachers.

It is to be regretted that the appropriation for evening schools for the year 1904 is only $10,206 for the salaries of teachers, firemen and janitors, and $500 for supplies. This amount is not sufficient to maintain the schools on the present basis of attendance, which requires a monthly salary expenditure of about $2,000 for the six months the schools are in session.

This inadequate appropriation not only provides nothing for increase in numbers or betterment, but will not enable us to improve the unfavorable conditions mentioned as existing last fall.

Several of the principals had expected to introduce some features of industrial work and manual training into their schools, but could not do so on account of the money necessary not being available.

It is difficult to secure the services of efficient teachers for carrying on the work of the evening schools. The rules forbid the employment of female assistants, who teach in the day schools and permit the employment of male assistants, teaching in the day schools, only "when the night school eligible list does not provide a sufficient number of properly qualified teachers." Practically, it may be said that the assistants in the elementary evening schools are not teachers of known efficiency employed in the day schools, but persons who have passed an academic examination, and are entirely without school room experience. If a thoroughly efficient teacher is needed anywhere, he is needed in an evening school. It is a question worth considering, whether the loss to the day schools, occasioned by the employment of day school teachers in the evening schools—if there is any loss—is not much more than compensated for by the greatly increased efficiency of the evening schools brought about by the employment of the day school teachers in the evening schools.

Many day school teachers, denied employment in the city evening schools by the rules, secure employment elsewhere at night. Evening school teachers, who are not employed in the day schools, are generally students or other persons not engaged in educational work, who teach temporarily for the purpose of earning a little money to enable them to prepare for other work. A teaching force composed of such material is necessarily very changeable, and it is not efficient. The experience acquired by such teachers, which should be of value, is lost to the school; whereas, if the evening school teachers were selected from those most suitable for the work employed in the day schools, the faculties of the evening schools would be as fixed, permanent and efficient as those of the day schools, the experience the teacher acquired in the work would be permanent, constantly increasing and most potent in building up good evening schools

The faculties of the Evening High Schools are made up from those who teach in the High Schools during the day. Many of these teachers have experience also in evening school work. It is claimed to be the case that most of the pupils attending the evening high schools attend well, are interested in their work, and seem to be actuated by a desire to avail themselves of the opportunities offered for their improvement. It is most difficult to secure good attendance in the evening schools. Good teachers have much to do with the matter as well as adequate equipment and other facilities.

At the conferences held with the principals for the purpose of considering matters relating to these schools, the subject of attendance has been given a great deal of consideration, and decided effort is being made to make improvements in this respect. School reports from other cities mention the difficulty of securing good attendance in the evening schools. One report says: "The attendance has no doubt been bettered by the enforcement of the rule requiring each pupil in the evening school to deposit a dollar as a guarantee of good intentions. This amount is returned to the student at the end of the term, or whenever he is compelled to leave school, provided he has not damaged the school property in any way, and provided his percentage of attendance has been at least seventy-five. In the mechanical drawing classes a tuition fee of two dollars was charged. Out of the amount thus collected the expenses of the course were paid, except the pay of the teachers. This fee was not considered a hardship by those taking the course. On the contrary, it was paid very willingly. The people taking this course are generally older, and have better paying positions in the daytime than those in the elementary classes, and usually have a definite object in taking up the study. At the close of the year the balance ($79.20) remaining in my hands

from this source, and from the dollar deposits forfeited by pupils in the elementary schools was turned into the treasury of the School Board."

For the purpose of improving the attendance and increasing the interest of pupils, one principal informs the pupils when school begins that certain class-rooms will be used by pupils who evince earnestness, interest in their work, a disposition to attend well, and to strive to improve; while those who do not attend so well and manifest less interest and desire for improvement will be transferred to class-rooms in charge of teachers best adapted to teach and manage classes composed of such pupils.

Our rules require the doors of the evening schools to be closed fifteen minutes after the exercises have commenced, and that no pupil shall be admitted thereafter. Nothing is said in the rules about absence, and it is difficult in many cases to know what to do. The endeavor has been to require, on the part of those attending, two hours a night during the three nights of the week the schools are in session. Anyone may attend who will do so in such a way as to be benefited, but when a pupil's example is found to be decidedly injurious, and that he is getting little if any benefit from the school, he is requested to withdraw. The schools are maintained for those who will attend reasonably well and *use* them for their improvement, and not for those who visit the schools once or twice a week for idle pleasure.

In the Colored Evening High School the industrial work attracted by far the largest number of students. In the millinery department a regular course in hat-making was given and nearly every one of the students completed a hat for herself by the close of the term. The dress-making included plain sewing and garment-making. The basketry included making baskets, belts, mats, crumb-brushes and many other useful articles out of reed and raffia. A course in cooking, one night per week, and in drawing, one night per week, were introduced this fall.

In the White Evening High School the nationalities are so varied as to include Swedes, Poles, Russians, Italians and Chinese. The most popular subjects taught in this school are mathematics and drawing, mechanical, architectural and free-hand, since these subjects pertain to the greatest number of occupations followed by these pupils.

Schools No. 42, No. 43 and No. 44 are attended in the main by foreigners for the purpose of learning English, among whom are numbered Russians, Poles, Swedes, Hungarians and Italians. It is difficult to secure teachers well qualified to give the instruction required in these schools. The course of study pursued in the other elementary evening schools consist of the three R's, with instruction at least once a week in history and geography.

While the difficulties mentioned have been encountered, and they have prevented much from being accomplished that would otherwise have been done, yet it may be said that good work has been done in many of the schools, and that the teachers have been faithful in the performance of their duties.

STATISTICS.

Number of schools, 11; number of teachers, 63; number of pupils belonging December 31, 1903, 1,785; average number belonging 1903, 1,846; average attendance for the year, 1,217; percentage of attendance, 66; total number enrolled, 5,079.

Respectfully submitted.

HENRY A. WISE.

THE SCHOOL ATTENDANCE LAW.

Mr. McCahan, who, under your rules, is made responsible for the enforcement of this law, reports as follows:

THE SCHOOL ATTENDANCE DEPARTMENT,

January 1, 1903.

MR. JAS. H. VAN SICKLE,

Superintendent of Public Instruction.

DEAR SIR: The appended statistics will acquaint you with the work of the Attendance Officers for the year 1903. The 24,698 cases of absentees do not represent the number of children absent from school. Quite a number were absent a number of times during the year. Especially was this the case with truants. All cases of absentees are placed in the possession of the Attendance Officers of the respective districts, and so held until the child returns to school. This case is then closed and a report made to the office. In case a child does not return in a reasonable time after investigation, the Attendance Officer is instructed to make a special effort and report the facts. Such cases are then placed on file for action by the Chief Attendance Officer or his assistant. You will thus observe that a case may be concluded, first, by the return of the child to school; secondly, by the failure of the officer to secure the attendance of the child; thirdly, by the withdrawal of the child from school. Withdrawals are caused by children of proper age going to work, removal from the city, attending a parochial or private school, or by death.

In addition to the above number of absentees, 1,441 Age and Schooling Certificates, entitling the holder to go to work, have been

perfected, and a record is on file in the office. These certificates are held by 108 different employers. Among many employers there has been a ready acceptance of the law. The proprietors of the Woodberry and Mt. Vernon Mills have given their hearty co-operation in the enforcement of the law, and have upon a representation of the facts in each case by the Attendance Officer dismissed all children under twelve years of age at work in their mills. The Pad Factories, Levy's Hat Factory and many smaller employers have co-operated in the same friendly spirit. That children under twelve years of age are found in the business places is most frequently caused by children and parents misstating their age when applying for work. It has been found that in some cases the home life demands less vigor in the enforcement of the law. In the case of widows with a number of small children, or where sickness prevails so as to require personal assistance to procure sustenance for the body, proper means have been taken to supply such assistance, without violating, in spirit at least, the attendance law. Such cases have occurred during the year, and I desire to give credit to those whose humanity has relieved the distress of some well-deserving poor.

Ninety-two letters of warning and marked copies of the law have been sent to parents who were indifferent to or defiant in regard to the enforcement of the law. In a great number of cases the children have returned to school.

When an Attendance Officer feels that he has exhausted his power and influence in securing the return of a child to school, the facts are reported in writing to the office, and Miss Peirce is detailed to give her personal attention to the matter in order to finally secure the return of the child to school. These are denominated "special cases." Eighty-one cases, including ninety-four children, have been satisfactorily closed. A number of other cases are still pending. Three complaints of habitual truancy and incorrigibility have been brought to the attention of the Juvenile Court, two of which were committed to Reformatories with the consent of their parents. The other was dismissed and the boy returned to school under parole of an officer of the court. This boy continued his truancy, and the inability of the Court to reform him, by commitment to a parental school, has rendered of non-effect all the efforts of the Attendance Officers to keep him in school. It has also produced a bad effect among the boys in the community in which he lives. The commitment of this boy to a school of the character proposed would, by the deterrent effect upon the boys of his neighborhood, have been of an inestimable benefit to the homes of that community.

In lieu of a parental school, or even in the event of its establishment, as an auxiliary to it, ungraded classes should be established in every group of the city. Nine are now in operation, and after January 1, 1904, several more will be formed as circumstances may allow.

In this connection I desire to quote the regulations for the transfer of truants and insubordinates from the regular to the ungraded classes from the report of the City Superintendent of Albany, New York:

"For violent opposition, irregular attendance, namely, a loss of one-third or more of school time, or for gross misbehavior, the principal may suspend a pupil from attendance, either temporarily for not more than one week, or for an indefinite period, and in all cases of such temporary suspension shall forthwith give information in writing of the cause thereof to the parent or guardian, and shall apply to the Superintendent for further advice and direction. In all cases of suspension for more than one week the Superintendent shall direct the suspended pupil to attend the ungraded class set apart for this purpose, and shall notify the parent or guardian, the Attendance Officer and the teacher having charge of the ungraded class of his action. The pupil thus directed to attend the ungraded class shall so attend until he has given satisfactory evidence of reformation, when he may be returned to the school from which he may have been suspended, unless sooner returned by order of the Board. It shall be the duty of the Attendance Officer to see that pupils suspended for more than one week are punctual and regular in attendance at the ungraded class, and the teacher of such ungraded class shall report each month all the facts concerning such suspended pupils to the Superintendent of Schools."

I desire also to quote his opinion concerning the ability and efficiency of such ungraded classes as worked under the above regulation:

"The ungraded class is, in my opinion, the most effective agency for the reformation of truants and insubordinates yet devised. It is also economical, saving several times its cost by disposing of cases that otherwise would have to be sent to other institutions at large cost to the city. I believe that the ungraded class is more effective than would be a local truant school wherein the culprits are confined and maintained at great expense."

I concur with Superintendent Cole's opinion concerning the usefulness of ungraded classes, but there will be cases of pupils which the ungraded classes will not be able to handle. For these cases the parental school must be organized. First, the regular class; second, the ungraded class, and finally, the parental school.

What has been the result of the work of the past year?

The chief benefit has been that the community realizes that there is a School Attendance Law that looks after the educational welfare of the children. The parents are now accustomed to meet the Attendance Officer at the door with the power of the law behind him to perform the duties which they formally assumed belonged entirely to themselves. The officers have, in the performance of this delicate and responsible duty, acted with tact and discretion, and have very generally been received most kindly and with a spirit of co-operation by the parents. Some of the lady officers have been met with rudeness and insult. Fine tact and womanly character can in most cases conquer such attacks. In these cases the result has been such as entitled them to my warmest sympathy and support.

Another great result has been to check incipient truancy. The child who has just begun to desert his school duties has been reclaimed. Many parents have thanked the Attendance Officers for the work they have done in this direction.

The reports for the year show that sickness is in general the cause of non-attendance. Last winter and spring there was an epidemic of measles. This fall, grip, tonsilitis, whooping cough, pneumonia and diphtheria have prevailed to a considerable extent. While personal sickness is the most frequent cause, it often occurs that children are detained at home on account of the illness of some member of the family, either to care for the sick or to be the only care of smaller children during the sickness of the mother. Poverty is a frequent cause of absence. Many children have no shoes. This is true of certain sections of the city. Pride frequently enters into the question and leads parents to misrepresent the true state of the case. Right here a good Attendance Officer accomplishes his best work.

What is needed to make the law more effective?

From what has been said in this report you will no doubt draw the conclusion that, first and foremost, simply as a means to carry on the work, ungraded classes and parental schools should be at once provided. The reason for the first will be accepted, no doubt, without any argument for their existence. That a parental school should be provided, if the law is to remain on the statute book, is equally clear to me. The city has been authorized to provide such schools in order that the results expected by the Legislature may be accomplished. The city has up to this time failed to make the provision necessary to accomplish the purpose of the law. It is not presumed that there is any objection to such a provision being made outside of the financial condition of the City Government existing at the present time. Until objections other than the one mentioned are brought forward it is

unnecessary to enter into any argument to show the absolute necessity of establishing parental schools, if the principle of compulsory attendance is to be maintained in order to carry out the purpose and benefit of Public Education.

Until that time arrives, however, there are some duties to be done and efforts to be put forth in order to accomplish, without the parental schools, the best results to be obtained. On the part of those assigned by the Board to make this law as much of a success as is possible under the circumstances, fidelity, judgment, tact, patience and good common sense are positively required.

On the part of the parents we need their sympathy and support in order that we may accomplish the greatest good for their children. They should remember that the best work cannot be accomplished in a day. It must necessarily be a growth, especially with the parents. They must grow up to the idea that the purpose of all school life is to make good citizens, honest voters, and honorable men and women of their children, and whatever is done in this direction should secure their support and co-operation.

The next and final suggestion I wish to make is that we need, and must have, if any success is to be obtained, the earnest and sympathetic co-operation of the teaching force. I approach this part of my report with a great degree of hesitancy, for the reason that I do not wish to imply that there are any, even if they do not agree that the law should be in operation, who would willingly throw obstacles in the way of its execution. I do not believe there is a single teacher who would knowingly or willingly take such an attitude with reference to this question, yet candor compels me to say that in some instances the work of the Attendance Officers has been made very grievous to them on account of lack of effort on the part of some teachers to make the details of the work a special object of their consideration. Without this co-operation it is possible to succeed, but the work will be more difficult. With it, success is sure.

The work of the Attendance Officers has, in the main, been very good. Some of it has been excellent. It has been possible to set the standard high, and the work generally has been done with great discretion and judgment. The whole result shows faithfulness, devotion and tact.

Respectfully yours,

JOHN E. McCAHAN

Statistics of School Attendance Work for 1903:

Cases for second week of January not classified....	1,085
Absentees	24,698
Truants	1,784
Transfer cards	4,918
Special cases	257
Non-attendants	213
Total	32,955

The year 1903, like the one which preceded it, has been a year of quiet, steady progress. Aside from enforcing the school attendance law, no new enterprises have been undertaken. There has been a gradual development of plans put in operation in 1900 and 1901. The effective manner in which this work has been carried forward is due to the co operation of teachers, principals and assistant superintendents. Much freedom has been allowed in matters of method, and that freedom has in general been wisely exercised. Good schools do not insist upon any particular method or device in teaching or discipline. They stand for sound educational principles, but encourage the widest possible exercise of individuality among teachers consistent with the harmonious operation of the school system as a whole. The school-room order that springs from willing obedience and results in self-control is the kind sought. Good order is essential, and must be secured in some way; the better the way the better the school. Purely formal order is better than disorder. If a teacher can find no middle ground between these two extremes, the former is preferred. Such a teacher is asked, however, to reflect upon the purpose of order and the means best adapted to secure it; to act rationally rather than impulsively; to try to control in such a way as to secure interested co-operation rather than sullen submission. In most school rooms a high degree of success has been attained. Many pupils, restless and troublesome, because lacking a suitable outlet for surplus energy, have become obedient and

industrious when given an opportunity to work with their hands in time gained from regular studies. School has been made interesting to many an incipient truant by adding constructive work to the ordinary curriculum. The school must provide variety of occupation for a certain kind of boy if it would compete with the street. Temporary suspension and the ungraded class are resources in discipline available when other means fail. It must not be supposed that the ungraded class is composed of vicious pupils. It is made up of pupils who, for various reasons, cannot work to advantage in regular classes. Some of them are simply too old for the grade to which they belong. A curriculum adapted to little children does not appeal to them, and they tend to become truants. The ungraded class can give such children the individual attention that they need, arouse their interest, and hold them in school.

Those whom you hold responsible for the supervision of the schools readily admit that there are weak places that need strengthening. But it may safely be said that the weak places are growing fewer, that there is much teaching of an unusually high order, and that the earnest and united efforts that are being put forth by the many able principals and the hundreds of good teachers in the force cannot fail in the long run to satisfy reasonable expectations.

Respectfully submitted.

JAMES H. VAN SICKLE.

TABLES.

SUMMARY OF STATISTICS.

Population of Baltimore, "United States Census"	508,957
Basis of taxation	$334,144,151 00
School tax	40 13/16
Number of pupils belonging December 31, 1903	67,368
Average number of pupils belonging for the year 1903	66,577
Average attendance for the year 1903	55,353
Number of pupils enrolled during year ending Dec. 31, 1903.	82,297
Percentage of attendance on average number belonging	83
Number of teachers December 31, 1903	1,689
Number of schools December 31, 1903	110

Tables Accompanying Superintendent's Report.

TABLE A.

Statement showing the Number of Male and Female Teachers and the Number of Pupils Belonging December 31, 1903, the Average Number of Pupils Belonging During the Year, and the Average Attendance for the Year, the Percentage of Attendance for the Year and the Total Number Enrolled During the Year.

Schools.	Teachers.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Principal.							
Baltimore City College, Francis A. Soper.	23	.....	692	642	600	94	957
Normal Dept., " " "	1	.....	8	6	6	100	13
Eastern High School, Wm. F. Wardenburg.	2	14	409	379	343	90	554
Western High School, Henry S. West.	1	26	964	869	793	91	1320
Baltimore Polytechnic Institute, Wm. R. King.	18	.....	362	306	288	94	473
Col'd High and Training School, J. H. N. Waring.	9	8	287	267	259	97	374
Normal Dept., " "	1	2	40	29	28	97	48
Teachers' Training School, Sarah C. Brooks.	.....	4	88	83	83	94	93
Totals.....	55	54	2850	2581	2400	92	3832

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS. Males.	TEACHERS. Females.	Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
Group A—School No. 3	.....	17	709	680	560	82	773
" " 24	.....	12	502	509	430	84	603
" " 38	.....	8	306	294	243	82	381
" " 47	1	21	882	921	771	84	1199
Totals	1	58	2399	2404	2004	83	2956
Edwin Hebden, Principal.							
Group B—School No. 6	.....	12	525	521	431	83	592
" " 23	.....	14	591	560	456	81	679
" " 25	.....	13	555	593	476	80	778
" " 42	2	21	844	803	700	88	1150
Totals	2	60	2515	2477	2063	83	3199
Basil Sollers, Principal.							
Group C—School No. 17	.....	7	244	472	375	79	309
" " 28	.....	10	447	526	457	87	504
" " 33	.....	12	531	622	499	88	608
" " 35	.....	11	465	488	392	80	561
" " 70	1	14	618	632	550	87	795
" " 84	2	19	864	868	780	90	973
Totals	3	73	3169	3608	3053	85	3750
Joseph C. Hands, Principal.							
Group D—School No. 2	.....	15	619	625	485	77	823
" " 8	.....	14	671	637	512	80	790
" " 93	2	33	1528	1483	1206	81	1854
" " 108	1	1	299	265	195	74	351
Totals	3	63	3117	3010	2398	80	3818
Alexander Fairbanks, Principal.							

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Group E—School No. 13	.....	12	508	561	460	82	600
" " 27	.....	13	563	549	461	83	639
" " 77	1	17	763	789	705	89	964
" " 83	1	18	926	920	816	89	936
" " 97	1	7	278	434	391	90	378
Totals	3	67	3038	3253	2833	87	3517
Charles J. Koch, Principal.							
Group F—School No. 5	.....	19	875	880	717	81	1001
" " 26	.....	10	425	434	363	84	474
" " 71	1	15	626	569	490	86	844
" " 101	1	5	241	223	176	79	333
" " 111	.....	14	653	631	412	66	871
Totals	2	63	2820	2737	2158	79	3523
Jacob Grape, Principal.							
Group G—School No. 7	.....	10	526	508	409	81	599
" " 43	.....	30	1228	1161	960	83	1441
" " 73	.....	16	690	663	512	77	864
" " 100	1	12	532	491	373	76	697
" " 105	2	8	641	584	451	77	809
Totals	3	76	3617	3407	2705	80	4410
Elisha M. Jackson, Principal.							
Group H—School No. 16	.....	13	480	570	507	87	584
" " 32	.....	12	474	480	412	86	557
" " 45	1	12	599	576	498	87	780
" " 49	.....	6	184	176	144	82	255
" " 113	4	10	655	682	548	80	860
Totals	5	53	2392	2484	2109	85	3046
Stephen A. Cremen, Principal.							

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Group I—School No. 20	.....	30	1285	1427	1152	81	1459
" " 74	2	23	987	984	859	87	1044
" " 80	1	23	987	1033	899	87	1250
Totals	3	76	3259	3444	2910	85	3753
Wm. H. Tolson, Principal.							
Group J—School No. 37	.....	15	698	672	545	81	823
" " 90	1	11	533	485	393	82	628
" " 94	1	29	1195	1194	1052	89	1454
" " 99	1	20	935	841	742	89	1134
Totals	3	75	3361	3192	2732	86	4039
Frederick Miller, Principal.							
Group K—School No. 50	.....	7	277	283	243	87	326
" " 51	1	21	915	946	823	87	1094
" " 52	.....	5	163	234	198	84	235
" " 53	.....	19	686	808	671	83	859
" " 54	.....	18	714	626	527	84	820
" " 115	2	1	234	224	180	80	295
Totals	3	71	2989	3121	2642	84	3629
Joseph Whittington, Principal.							
Group L—School No. 76	.....	18	776	727	581	80	969
John S. Black, Principal.							

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Group M—School No. 4	.....	18	630	638	534	84	727
" " 29	.....	10	378	388	314	81	436
" " 44	1	14	500	479	418	87	685
" " 92	1	19	810	811	718	89	932
" " 106	2	17	859	791	599	76	1034
Totals	4	78	3177	3107	2583	83	3814
Andrew J. Pietsch, Principal.							
Group N—School No. 12	.....	15	644	621	527	85	714
" " 22	.....	15	569	563	457	81	645
" " 34	.....	14	665	643	494	77	783
" " 72	2	17	724	697	619	89	958
" " 109	1	8	364	355	254	72	454
Totals	3	69	2966	2879	2351	82	3554
Judson Hunt, Principal.							
Group O—School No. 10	.....	11	436	418	333	80	531
" " 19	.....	17	787	744	595	80	893
" " 30	.....	17	754	708	582	82	882
" " 48	1	11	458	431	370	86	631
" " 114	1	9	714	652	401	61	1038
Totals	2	65	3149	2953	2281	78	3975
Samuel Keller, Principal.							
Group P—School No. 66	.....	4	141	149	132	89	182
" " 67	.....	7	295	283	243	86	334
" " 68	1	14	533	494	433	88	636
" " 96	3	17	780	753	668	89	958
" " 98	.....	8	289	301	268	86	309
Totals	4	50	2038	1980	1744	89	2419
Rozell Berryman, Principal.							

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Group Q—School No. 11	.....	24	1059	1051	848	81	1232
" " 63	2	11	474	506	412	81	566
" " 65	1	9	331	340	261	76	438
" " 78	1	17	728	710	621	88	860
" " 103	3	3	227	216	172	80	292
Totals	7	64	2819	2823	2314	81	3388
Henry Zoller, Jr., Principal.							
Group R—School No. 15	.....	15	676	678	573	84	769
" " 31	.....	13	429	449	365	81	474
" " 39	.....	12	533	498	418	84	599
" " 75	1	23	850	845	752	89	1093
Totals	1	63	2488	2470	2108	85	2935
George W. Ebaugh, Principal.							
Group S—School No. 1	1	13	582	555	475	86	736
" " 9	.....	17	621	609	488	80	741
" " 82	1	9	286	273	242	89	349
" " 95	1	16	680	672	600	89	813
" Preparatory School.	1	4	156	152	140	92	196
Totals	4	59	2325	2261	1945	86	2835
Charles A. A. J. Miller, Principal.							
Group T—School No. 21	.....	12	464	440	355	81	529
" " 46	1	14	561	526	459	87	740
" " 79	1	17	767	811	697	86	900
" " 91	1	11	388	429	360	84	491
Totals	3	54	2180	2206	1871	85	2660
Charles M. Elliott, Principal.							

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

SCHOOLS.	TEACHERS.		Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.					
Group U—School No. 14	.....	11	473	547	453	83	566
" " 60	1	20	829	873	734	84	978
" " 61	1	16	776	782	677	87	882
" " 81	2	14	587	618	536	87	741
Totals	4	61	2665	2820	2400	85	3167
Robert W. Elliott, Principal.							
Group V—School No. 59	1	2	91	87	77	89	103
" " 62	1	22	893	594	501	84	1020
" " 64	.....	4	156	129	108	84	176
" " 112	5	19	1426	1329	1047	79	1850
" " 118	4	4	572	555	430	77	759
Totals	11	51	3138	2694	2163	80	3908
W. Edw. F. Taylor, Principal.							
Group W—School No. 55	1	23	977	825	689	84	1168
" " 56	.....	7	262	279	236	85	313
" " 57	.....	6	198	209	181	87	240
" " 58	1	9	351	331	280	85	424
Totals	2	45	1788	1645	1386	85	2145
Thomas C. Bruff, Principal.							
Colored Practice School No. 107	.....	3	807	713	507	71	935
" " " 110	3	1	889	905	692	76	1291
" " " 116	2	3	637	676	420	73	830
Totals	5	7	2333	2294	1619	74	3056
(See Col'd High and Tr. School.)							

TABLE A—Continued.—TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.—RECAPITULATION.

SCHOOLS.	Number of Schools December, 1903.	NUMBER OF TEACHERS.			Number of Pupils Belonging December 31, 1903.	Average Number Belonging for the Year 1903.	Average Attendance for the Year 1903.	Percentage of Attendance, 1903.	Total Enrollment for the Year 1903.	Year.	Number of Pupils Enrolled in School Compared by Years.	Average Attendance Compared.
		Men, 1903.	Women, 1903.	Total, 1903.								
Baltimore City College	1	23	.....	23	692	642	600	94	957	1877	45,942	27,779
Eastern High School	1	2	14	16	409	379	343	90	554	1878	45,951	29,518
Western High School	1	1	26	27	964	869	793	91	1,320	1879	48,988	30,477
Baltimore Poly'tc Insti'te	1	18	.....	18	362	306	288	94	473	1880	48,066	29,961
Colored High School	1	9	8	17	287	267	259	97	374	1881	47,048	29,424
Training Department:												
Baltimore City College	.....	1	.....	1	8	6	6	100	13	1882	48,277	29,178
White Women	.....	.....	4	4	88	83	83	94	93	1883	48,876	31,601
Colored Women	.....	1	2	3	40	29	28	97	48	1884	52,548	34,024
Secondary Schools	5	55	54	109	2,850	2,581	2,400	92	3,832	1885	52,970	34,992
Group A	4	1	58	59	2,399	2,404	2,004	83	2,956	1886	54,221	33,581
" B	4	2	60	62	2,515	2,477	2,063	83	3,199	1887	54,210	33,969
" C	6	3	73	76	3,169	3,608	3,053	85	3,750	1888	59,906	37,892
" D	4	3	63	66	3,117	3,010	2,398	80	3,818	1889	63,545	40,014
" E	5	3	67	70	3,038	3,253	2,833	87	3,517	1890	65,758	41,603
" F	5	2	63	65	2,820	2,737	2,158	79	3,523	1891	66,836	42,898
" G	5	3	76	79	3,617	3 407	2,705	80	4,410	1892	67,610	43,869
" H	5	5	53	58	2,392	2,484	2,109	85	3,046	1893	69,425	45,846

" I	3	3	76	79	3,259	3 444	2,910	85	3,753	1894	72,980	49,125
" J	4	3	75	78	3,361	3,192	2,732	86	4,039	1895	75,610	49,790
" K	6	3	71	74	2,989	3,121	2,642	84	3,629	1896	76,192	51,712
" L	1	.....	18	18	776	727	581	80	969	1897	78,542	53,209
" M	5	4	78	82	3,177	3,107	2,583	83	3,814	1898	79,684	53,531
" N	5	3	69	72	2,966	2,879	2,351	82	3,554	1899	80,146	53,728
" O	5	2	65	67	3,149	2,953	2,281	78	3,975	1900	72,490	54,403
" P	5	4	50	54	2,038	1,980	1,744	89	2,419	1901	75,907	52,640
" Q	5	7	64	71	2,819	2,823	2,314	81	3,388	1902	80,560	53,846
" R	4	1	63	64	2,488	2,470	2,108	85	2,935	1903	82 297	55,353
" S	4	4	59	63	2,325	2,261	1,945	86	2,835	.....	.....	.....
" T	4	3	54	57	2,180	2,206	1,871	85	2,660	.....	.....	.....
" U	4	4	61	65	2,665	2,820	2,400	85	3,167	.....	.....	.....
" V	5	11	51	62	3,138	2,694	2,163	80	3,908	.....	.....	.....
" W	4	2	45	47	1,788	1,645	1,386	85	2,145	.....	.....	.....
Colored Practice Schools...	3	5	7	12	2,333	2,294	1,619	74	3,056	.....	.....	.....
Elementary Schools	105	81	1,419	1,500	64,518	63,996	52,953	83	78,465	.....	.....	.....
Total.....	110	136	1,473	1,609	67,368	66,577	55,353	83	82,297	.....	.....	.....
Group Principals.....	.....	23	.....	23	.....	.....	.....	.....	.....	.....	.....	.....
*Supervisors of Music	.....	.....	4	4	.....	.....	.....	.....	.....	.....	....	.....
Drawing Teachers.	.....	.....	13	13	.....	.....	.....	.....	.....	.....	.....	.....
Sewing Teachers..	.....	.....	25	25	.....	.....	.....	.....	.....	.....	.....	.....
Physical Culture Teachers.	.....	2	6	8	.....	.....	.....	.....	.....	.....	.....	.....
Manual Training Teachers	.....	4	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Cooking Teachers	.....	.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....
Grand Total.....	.....	165	1,524	1,689	67,368	66,577	55,353	83	82,297	.....	.....	.....

*Helen M. Place, Supervisor.
Olivia Keach, "
Laura Davis, "
Carl A Schulz, "

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

COLORED SCHOOLS.	TEACHERS.			NUMBER OF PUPILS.				
	Male.	Female.	Total.	Number of Pupils Belonging December, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
Colored High and Training School....	10	10	20	327	286	287	97	422
School No. 100.....	1	12	13	532	491	373	76	697
" 101.....	1	5	6	241	223	176	79	333
" 103*.....	3	3	6	227	216	172	80	292
" 105*.....	2	8	10	641	584	451	77	809
" 106.....	2	17	19	859	791	599	76	1,034
" 107*.....	.....	3	3	807	713	507	71	935
" 108*.....	1	1	2	299	265	195	74	351
" 109.....	1	8	9	364	355	254	72	454
" 110*.....	3	1	4	889	905	692	76	1,291
" 111.....	.....	14	14	653	631	412	66	871
" 112*.....	5	19	24	1,426	1,329	1,047	79	1,850
" 113*.....	4	10	14	655	682	548	80	860
" 114*.....	1	9	10	714	652	401	61	1,038
" 115*.....	2	1	3	234	224	180	80	295
" 116*.....	2	3	5	637	676	420	73	830
" 118*.....	4	4	8	572	555	430	77	759
Totals.....	42	128	170	10,077	9,578	7,144	75	13,121

*Schools taught by colored faculties.

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE A—Continued.

NIGHT SCHOOLS.	TEACHERS.			Number of Pupils Belonging December 31, 1903.	Average Number of Pupils Belonging 1903.	Average Attendance for the Year.	Percentage of Attendance for the Year.	Total Number Enrolled.
	Males.	Females.	Total Number of Teachers.					
Evening High School	11	.....	11	288	294	202	69	1,014
Night School No. 30.	2	.....	2	36	60	40	67	222
" " 42.	4	2	6	168	140	118	84	208
" " 43.	6	2	8	268	314	169	54	1,101
" " 44.	5	.....	5	200	172	117	68	445
" " 55.	4	1	5	115	124	100	81	309
Colored Evening High School	5	7	12	204	226	150	70	683
Colored Night School No. 101	4	.....	4	140	136	88	65	234
Colored Night School No. 106	3	.....	3	98	114	70	62	270
Colored Night School No. 112	4	....	4	147	165	103	64	337
Colored Night School No. 113	3	.....	3	121	101	60	59	256
Totals	51	12	63	1,785	1,846	1,217	66	5,079

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE B.

DIFFERENT GRADES OF SCHOOLS COMPARED.

	Year 1903.	Year 1902.	Increase.	Decrease.
Number of pupils in Balto. City College	692	622	70	.....
Number of pupils in Eastern High School	409	371	38	.....
Number of pupils in Western High School	964	807	157	.....
Number of pupils in Baltimore Polytechnic Institute	362	258	104	.....
Number of pupils in Col'd High School	287	262	25	.....
Number of pupils in Training Department, B. C. C. (White Men)	8	5	3	.....
Number of pupils in Training Department (White Women)	88	97	.....	9
Number of pupils in Training Department (Colored)	40	24	16	.....
	2,850	2,446	413	9
Elementary Schools	64,518	63,953	565	.....
Totals	67,368	66,399	978	.....

TABLE BB.

DIFFERENT GRADES OF CLASSES COMPARED.

	1903.	1902.	Increase.	Decrease.
Number of pupils in Fifth year	34	35	.....	1
" " Fourth year	321	248	73	.....
" " Third year	471	367	104	.....
" " Second year	699	641	58	.....
" " First year	1,189	1,029	160	.....
Training Schools	136	126	10	.....
Number of pupils in Eighth Grade	2,011	1,934	77	.....
" " Seventh Grade	3,005	2,863	142	.....
" " Sixth Grade	4,487	4,274	213	.....
" " Fifth Grade	6,494	6,447	47	.....
" " Fourth Grade	8,885	8,595	290	.....
" " Third Grade	10,259	10,305	.....	46
" " Second Grade	12,257	12,433	.....	176
" " First Grade	17,120	17,102	18	.....
	67,368	66,399	1,192	223
Preparatory classes included in above.	324	155	169	.....

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE C.

Showing the number of Pupils and Teachers in the Public Schools on Roll at the time of making the Report each year, from the year 1829, when the first Public School was opened, to the year 1903, inclusive.

This statement does not include Night Schools.

Date.	Teachers.	Pupils.	Date.	Teachers.	Pupils.
1829	3	269	1867	490	22,073
1830	5	402	1868	537	21,903
1831	5	627	1869	540	23,552
1832	5	640	1870	549	23,898
1833	5	544	1871	559	24,479
1834	8	859	1872	581	25,092
1835	8	747	1873	558	26,663
1836	8	814	1874	626	27,634
1837	8	659	1875	672	29,942
1838	8	675	1876	717	31,071
1839	16	1,126	1877	734	32,523
1840	22	1,834	1878	784	34,002
1841	27	2,331	1879	798	35,595
1842	28	2,464	1880	799	35,297
1843	30	2,669	1881	824	35,630
1844	38	3,366	1882	826	35,639
1845	52	4,313	1883	855	37,546
1846	65	5,087	1884	893	38,618
1847	90	6,439	1885	930	39,828
1848	100	6,696	1886	972	39,779
1849	110	6,763	1887	994	41,199
1850	119	7,093	1888	1,119	46,521
1851	138	8,011	1889	1,187	48,850
1852	175	9,081	1890	1,244	50,899
1853	186	9,447	1891	1,301	52,543
1854	207	9,717	1892	1,382	54,406
1855	217	10,588	1893	1,464	57,048
1856	238	11,441	1894	1,557	59,808
1857	245	11,269	1895	1,614	61,271
1858	256	11,587	1896	1,719	63,087
1859	267	11,750	1897	1,794	64,602
1860	284	13,186	1898	1,827	65,170
1861	295	13,424	1899	1,802	65,289
1862	311	13,888	1900	1,676	64,720
1863	333	14,847	1901	1,647	64,918
1864	343	15,319	1902	1,679	66,399
1865	366	15,957	1903	1,689	67,368
1866	402	17,550			

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE D.

SCHOOLS.	NUMBER OF PUPILS BETWEEN THE AGES OF																	Totals.
	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	
Baltimore City College	.....	.....	.....	.....	.....	.....	.....	6	45	116	160	162	116	69	13	5	.....	692
Training School (White Men)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3	1	1	8
Eastern High School	.....	.....	.....	.....	.....	.....	.....	1	8	57	104	81	108	41	5	4	.....	409
Western High School	.....	.....	.....	.....	.....	.....	.....	1	31	135	249	256	165	98	24	5	.....	964
Balto. Polytechnic Inst.	.....	.....	.....	.....	.....	.....	.....	1	9	64	107	84	49	30	12	6	.....	362
Teachers' Train'g School (White)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	10	45	19	12	88
Colored High School	.....	.....	.....	.....	.....	.....	.....	.....	3	10	22	64	63	63	41	19	2	287
Colored Training School.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	5	13	15	40
Totals	.....	.....	.....	.....	.....	.....	.....	9	96	382	642	647	503	321	148	72	30	2850
Group A	31	240	334	326	287	333	270	224	177	111	56	10	.....	.....	.....	.....	.....	2399
" B	88	331	283	302	300	339	286	257	199	97	30	3	.....	.....	.....	.....	.....	2515
" C	76	352	348	440	413	429	368	316	215	151	45	16	.....	.....	.....	.....	.....	3169
" D	69	373	400	399	452	419	360	341	201	76	24	3	.....	.....	.....	.....	.....	3117
" E	57	348	357	396	400	363	389	298	239	116	71	4	.....	.....	.....	.....	.....	3038
" F	32	289	369	330	349	318	273	281	229	172	111	53	13	1	.....	.....	.....	2820
" G	118	412	349	424	406	456	434	367	292	206	86	42	15	10	.....	.....	.....	3617
" H	69	214	253	247	319	295	241	292	201	136	72	25	23	4	1	.....	.....	2392

" I	50	261	327	360	350	403	389	353	344	277	113	30	2	....	.....	.....	.....	3259
" J	46	360	431	443	475	449	394	348	268	107	32	8	.....	.....	.....	.....	.....	3361
" K	62	213	331	366	360	355	330	334	273	204	111	42	7	1	.....	. ....	.....	2989
" L	10	123	96	108	108	102	84	81	47	14	1	2	.....	.....	.....	.....	.....	776
" M	94	293	349	372	373	411	374	366	278	154	65	37	8	1	1	1	.....	3177
" N	38	311	381	389	390	380	398	314	192	113	47	10	3	.....	.....	.....	.....	2966
" O	53	287	383	468	394	376	331	357	258	165	55	17	5	.....	.....	.....	.....	3149
" P	20	226	241	287	241	260	281	212	144	91	29	6	.....	. .	.....	.....	.....	2038
" Q	42	261	350	331	325	327	278	302	235	167	131	59	7	4	.....	.....	.....	2819
" R	36	208	251	273	303	326	303	279	242	173	68	23	2	.....	1	.....	.....	2488
" S	37	214	254	248	223	280	250	249	253	200	87	25	3	2	.....	.....	.....	2325
" T	25	162	205	194	218	255	277	283	240	172	109	35	4	1	.....	.....	.....	2180
" U	27	237	193	268	313	316	308	350	296	197	120	34	5	1	.....	.....	.....	2665
" V	97	311	335	350	351	378	346	350	278	223	81	36	2	.....	.....	.....	.....	3138
" W	59	212	239	212	249	234	198	172	104	67	32	9	1	.....	.....	.....	.....	1788
Colored Practice Schools.	45	216	231	274	298	307	257	252	204	144	69	30	5	1	.....	.....	.....	2333
Totals	1281	6454	7290	7807	7897	8111	7419	6978	5409	3533	1645	559	105	26	3	1	.....	64518
Grand totals	1281	6454	7290	7807	7897	8111	7419	6987	5505	3915	2287	1206	608	347	151	73	30	67368

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E.

STATEMENT SHOWING THE NUMBER OF PUPILS IN EACH GRADE.

SECONDARY SCHOOLS.	Fifth Year.		Fourth Year.		Third Year.		Second Year.		First Year.		Totals.		GRAND TOTALS.
	Boys.	Girls	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Baltimore City College	32	.....	85	.....	118	.....	174	.....	283	.....	692	.....	692
Normal Department, B. C. C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	8
Eastern High School	.....	.....	.....	77	.....	70	.....	94	.....	168	.....	409	409
Western High School	.....	2	.....	106	.....	183	.....	248	.....	425	.....	964	964
Baltimore Polytechnic Institute	.....	.....	13	.....	47	.....	92	.....	210	.....	362	.....	362
Colored High School	.....	.....	11	29	19	34	28	63	39	64	97	190	287
Normal Departm't, Colored High and Training School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	28	40
Training Dept., White Women	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	88	88
Totals	32	2	109	212	184	287	294	405	532	657	1171	1679	2850

TABLE E—Continued.

SCHOOLS.	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		GRAND TOTALS.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group A—School No. 3.....	118	136	115	118	99	85	14	24	.....	.....	.....	.....	....	.....	....	.....	346	363	709
" " 24.....	82	89	90	74	65	62	21	19	.....	.....	.....	.....	.....	.....	.....	.....	258	244	502
" " 38.....	63	70	35	43	50	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	158	306
" " 47.....	.....	.....	.....	.....	9	.....	169	159	120	131	68	67	51	49	29	30	446	436	882
	263	295	240	235	223	192	204	202	120	131	68	67	51	49	29	30	1198	1201	2399
Group B—School No. 6...	121	102	77	97	66	62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	264	261	525
" " 23..	131	108	100	112	38	65	15	22	.....	.....	.....	.....	.....	.....	.....	.....	284	307	591
" " 25...	162	142	79	47	48	77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	289	266	555
" " 42...	....	.....	.....	.....	26	14	185	144	87	104	98	68	38	32	17	31	451	393	844
	414	352	256	256	178	218	200	166	87	104	98	68	38	32	17	31	1288	1227	2515

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

SCHOOLS.	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		GRAND TOTALS.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group C—School No. 17.....	99	88	.....	.....	30	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	129	115	244
" " 28.....	69	59	76	72	75	54	26	16	.....	.....	.....	.....	.....	.....	.....	.....	246	201	447
" " 33.....	99	92	67	71	41	43	36	43	34	5	.....	.....	.....	.....	.....	.....	277	254	531
" " 35.....	63	62	89	92	21	21	24	55	25	13	.....	.....	.....	.....	.....	.....	222	243	465
" " 70.....	.....	.....	65	63	61	22	66	107	54	72	47	61	.....	.....	.....	.....	293	325	618
" " 84.....	77	88	67	75	77	95	23	25	44	77	29	46	40	40	24	37	381	483	864
	407	389	364	373	305	262	175	246	157	167	76	107	40	40	24	37	1548	1621	3169
Group D—School No. 2...	115	152	92	101	53	67	.....	39	.....	.....	.....	.....	.....	.....	.....	.....	260	359	619
" " 8...	89	71	60	67	60	41	91	66	34	46	20	26	.....	.....	.....	.....	354	317	671
" " 93..	202	219	127	151	102	125	110	110	98	109	46	42	29	25	21	12	735	793	1528
" " 108...	67	84	26	30	13	21	12	22	10	14	.....	.....	.....	.....	.....	.....	128	171	299
	473	526	305	349	228	254	213	237	142	169	66	68	29	25	21	12	1477	1640	3117

Group E—School No.	13.....	113	80	85	67	57	67	17	22	.....	.....	.....	.....	.....	.....	.....	....	272	236	508
" "	27.....	115	123	87	79	70	89	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	272	291	563
" "	77.....	.....	.....	.....	.....	.....	.....	122	118	98	99	87	85	48	39	33	34	388	375	763
" "	83.....	115	94	69	63	73	78	76	66	59	77	28	27	50	33	14	4	484	442	926
" "	97.....	46	34	37	41	36	43	22	19	.....	.....	.....	.....	.....	.....	.....	...	141	137	278
		389	331	278	250	236	277	237	225	157	176	115	112	98	72	47	38	1557	1481	3038
Group F—School No.	5...	196	147	149	145	108	79	32	19	.....	.....	.....	.....	.....	.....	.....	.....	485	390	875
" "	26...	85	81	63	42	60	60	11	23	.....	.....	.....	.....	.....	.....	.....	....	219	206	425
" "	71...	.....	.....	.....	.....	.....	.....	62	103	85	88	66	79	46	27	31	39	290	336	626
" "	101...	.....	.....	.....	.....	.....	.....	.....	.....	62	82	13	31	7	25	4	17	86	155	241
" "	111...	183	166	53	69	45	79	32	26	.....	.....	.....	.....	.....	.....	.....	.....	313	340	653
		464	394	265	256	213	218	137	171	147	170	79	110	53	52	35	56	1393	1427	2820
Group G—School No.	7...	120	144	80	93	41	48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	241	285	526
" "	43...	176	194	137	158	117	110	51	71	43	52	31	32	13	18	13	12	581	647	1228
" "	73...	32	20	51	46	88	43	82	92	46	52	47	37	12	21	9	17	362	328	690
" "	100...	54	68	22	39	19	56	30	42	11	37	29	54	6	37	8	20	179	353	532
" "	105...	135	142	76	88	52	62	38	48	.....	.....	.....	.....	.....	.....	.....	.....	300	341	641
		517	568	366	424	317	319	201	253	100	141	102	123	31	76	30	49	1663	1954	3617
Group H—School No.	16...	111	115	67	73	62	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	240	240	480
" "	32...	78	75	69	70	63	60	33	26	.....	.....	.....	.....	.....	.....	.....	.....	243	231	474
" "	45...	.....	.....	.....	.....	.....	.....	85	106	76	89	51	47	39	42	34	30	285	314	599
" "	49...	19	24	16	18	18	20	15	14	10	3	4	3	11	9	.....	.....	93	91	184
" "	113	103	85	52	70	41	54	25	42	17	45	26	27	13	27	9	19	286	369	655
		311	299	204	231	184	186	158	188	103	137	81	77	63	78	43	49	1147	1245	2392

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

SCHOOLS.	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		GRAND TOTALS.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys	Girls	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group I—School No. 20...	278	265	212	196	156	178	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	646	639	1285
" " 74...	92	115	76	65	65	64	57	34	64	76	54	42	56	71	24	32	488	499	987
" " 80...	....	.....	....	....	.....	.....	130	109	113	143	99	123	81	96	29	64	452	535	987
	370	380	288	261	221	242	187	143	177	219	153	165	137	167	53	96	1586	1673	3259
Group J—School No. 37...	154	155	110	112	83	84	.....	.....	..	.....	.....	.....	.....	.....	.....	.....	347	351	698
" " 90...	95	65	62	76	28	30	61	75	19	22	.....	.....	.....	.....	.....	.....	265	268	533
" " 94...	173	176	114	110	44	82	89	83	77	83	54	45	25	23	7	10	583	612	1195
" " 99...	128	108	102	78	80	71	64	47	47	59	38	49	12	18	22	12	493	442	935
	550	504	388	376	235	267	214	205	143	164	92	94	37	41	29	22	1688	1673	3361

Group K—School No.	50...	40	26	34	39	21	34	21	21	13	28	.....	.....	.....	.....	.....	.....	129	148	277
" "	51...	97	69	86	84	62	80	66	50	57	48	47	40	28	27	29	25	49	423	915
" "	52...	.....	.....	.....	.....	32	....	...	.....	35	.....	36	.....	34	.....	26	.....	163	.....	163
" "	53...	37	169	.....	106	.....	72	....	115	.....	81	.....	51	.....	29	.....	26	37	649	686
" "	54...	126	13	117	7	106	36	109	3	26	21	40	47	2	35	.....	26	526	188	714
" "	115...	32	35	22	24	17	22	9	12	9	9	4	14	7	4	5	9	105	129	234
		332	312	259	260	238	244	205	201	160	187	127	152	71	95	60	86	1452	1537	2989
Group L—School No.	76...	113	119	90	79	78	71	48	65	27	27	16	17	16	10	.....	.....	388	388	776
Group M—School No.	4...	133	154	82	83	83	58	.....	37	.....	.....	.....	.....	.....	.....	.....	.....	298	332	630
" "	29...	52	55	70	61	35	40	24	41	.....	.....	.....	.....	.....	.....	.....	.....	181	197	378
" "	44...	.....	.....	.....	.....	.....	.....	62	21	67	83	76	68	35	34	33	21	273	227	500
" "	92...	79	83	67	83	64	66	73	76	54	76	17	23	23	10	8	8	385	425	810
" "	106...	138	146	80	71	72	95	36	65	14	28	23	38	16	18	8	11	387	472	859
		402	438	299	298	254	259	195	240	135	187	116	129	74	62	49	40	1524	1653	3177
Group N—School No	12...	157	129	89	93	84	92	.....	.....	.....	.....	.....	....	.....	.....	....	.....	330	314	644
" "	22...	152	110	104	85	47	65	3	.....	2	.....	1	.....	.....	.....	.....	.....	309	260	569
" "	34...	131	130	106	82	59	66	32	59	.....	.....	.....	.....	.....	.....	.....	.....	328	337	665
" "	72...	.....	.....	.....	.....	.....	.. ..	146	138	93	121	61	70	15	37	21	22	336	388	724
" "	109...	76	88	40	40	20	16	35	28	10	11	.....	.....	.....	.....	.....	.....	181	183	364
		516	457	339	30..	210	239	216	225	105	132	62	70	15	37	21	22	1484	1482	2966

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

SCHOOLS.	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		GRAND TOTALS.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group O—School No. 10...	57	44	38	54	86	57	39	22	24	15	.....	.....	.....	.....	.....	.....	244	192	436
" " 19..	199	191	100	77	99	79	18	24	.....	.....	.....	.....	.....	.....	.....	.....	416	371	787
" " 30...	49	46	48	48	60	85	66	104	41	51	30	55	19	20	3	29	316	438	754
" " 48...	....	.....	.....	.....	.....	.....	38	51	77	65	52	55	31	33	33	23	231	227	458
" " 114...	156	175	86	94	42	61	25	46	9	16	1	1	.....	2	.....	.....	319	395	714
	461	456	272	273	287	282	186	247	151	147	83	111	50	55	36	52	1526	1623	3149
Group P—School No. 66 ..	.....	.....	.....	.....	.....	.....	.....	.....	31	37	19	17	6	18	2	11	58	83	141
" " 67...	40	41	44	40	21	22	34	53	.....	.....	.....	.....	.....	.....	.....	.....	139	156	295
" " 68...	94	41	51	42	44	34	46	36	39	31	17	18	18	8	6	8	315	218	533
" " 96...	102	84	69	40	36	57	82	104	55	55	25	21	18	16	10	6	397	383	780
" " 98...	58	44	38	39	38	35	20	17	.....	.....	.....	.....	.....	.....	.....	.....	154	135	289
	294	210	202	161	139	148	182	210	125	123	61	56	42	42	18	25	1063	975	2038

Group Q—School No.	11...	249	172	184	167	129	158	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	562	497	1059
" "	63...	49	48	39	28	32	27	38	35	18	24	22	31	20	27	18	18	236	238	474
" "	65...	51	35	35	30	29	32	27	12	19	13	10	10	6	16	3	3	180	151	331
" "	78...	.....	.....	.....	.....	.....	.....	110	132	53	82	71	89	58	58	30	45	322	406	728
" "	103...	30	10	10	9	5	4	2	1	15	23	22	19	22	27	7	21	113	114	227
		379	265	268	234	195	221	177	180	105	142	125	149	106	128	58	87	1413	1406	2819
Group R—School No.	15	103	128	86	85	126	109	18	21	.....	.....	.....	.....	.....	.....	.....	.....	333	343	676
" "	31.....	72	84	38	39	43	42	46	27	15	23	.....	.....	.....	.....	.....	.....	214	215	429
" "	39.....	59	46	67	67	38	50	42	42	32	50	18	22	.	.....	.....	.....	256	277	533
" "	75.....	.....	.....	.....	.....	.....	.....	92	108	103	120	83	93	56	82	43	70	377	473	850
		234	258	191	191	207	201	198	198	150	193	101	115	56	82	43	70	1180	1308	2488
Group S—School No.	1.....	88	.....	136	.....	94	.....	82	.....	76	.....	43	.....	36	.....	27	.....	582	.....	582
" "	9.....	27	156	.....	86	.....	72	.....	77	.....	72	.....	68	.....	36	.....	27	27	594	621
" "	82.....	.....	.....	.....	.....	54	37	23	17	35	38	14	41	8	7	7	5	141	145	286
" "	95.....	102	110	81	80	19	28	56	44	26	18	25	16	20	28	16	11	345	335	680
Preparatory.....		.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62	40	24	30	86	70	156
		217	266	217	166	167	137	161	138	137	128	82	125	126	111	74	73	1181	1144	2325
Group T—School No.	21.....	101	96	45	39	53	52	15	25	13	25	.....	.....	.....	.....	.....	.....	227	237	464
" "	46.....	.....	.....	16	19	36	44	44	35	60	56	54	49	29	48	32	39	271	290	561
" "	79.....	44	42	48	31	41	34	43	52	58	58	75	63	48	47	41	42	398	369	767
" "	91.....	91	86	34	30	16	15	21	21	14	15	6	12	5	7	9	6	196	192	388
		236	224	143	119	146	145	123	133	145	154	135	124	82	102	82	87	1092	1088	2180

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

SCHOOLS.	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		GRAND TOTALS.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group U—School No. 14.....	61	62	60	44	62	30	69	85	.....	.....	.....	.....	.....	.....	.....	.....	252	221	473
" " 60.....	86	84	86	84	73	67	60	64	41	47	40	26	20	20	12	19	418	411	829
" " 61.....	54	37	30	60	55	41	21	20	67	81	52	60	45	66	35	52	359	417	776
" " 81.....	.....	.....	.....	.....	.....	.....	92	115	65	63	45	60	44	49	23	31	269	318	587
	201	183	176	188	190	138	242	284	173	191	137	146	109	135	70	102	1298	1367	2665
Group V—School No. 59.....	3	10	11	7	8	7	8	7	6	6	5	7	3	3	.....	.....	44	47	91
" " 62.....	109	86	91	73	75	103	55	57	39	36	12	28	53	36	16	24	450	443	893
" " 64.....	9	15	11	13	9	12	9	9	11	15	6	10	5	7	6	9	66	90	156
" " 112.....	145	375	74	252	....	211	20	146	20	93	32	58	.....	.....	.....	.....	291	1135	1426
" " 118.....	171	.....	139	.....	142	.....	81	.....	39	.....	.....	.....	.....	.....	.....	.....	572	.....	572
	437	486	326	345	234	333	173	219	115	150	55	103	61	46	22	33	1423	1715	3138

Group W—School No. 55...	146	148	85	101	67	73	77	69	45	49	21	18	19	31	13	15	473	504	977
" " 56...	60	65	29	29	39	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128	134	262
" " 57...	19	25	24	17	19	18	12	13	14	14	13	10	.....	.....	.....	.....	101	97	198
" " 58...	47	59	30	44	31	25	22	19	16	12	9	9	6	11	2	9	163	188	351
	272	297	168	191	156	156	111	101	75	75	43	37	25	42	15	24	865	923	1788
Colored Practice Schools:																			
School No. 107.....	101	189	61	93	65	93	38	69	18	31	27	22	.....	.....	.....	.....	310	497	807
" 110.....	169	166	119	126	49	87	14	42	13	34	12	28	4	12	1	13	381	508	889
" 116.....	166	68	76	62	52	63	31	71	25	23	.....	.....	.....	.....	.....	.....	350	287	637
	436	423	256	281	166	243	83	182	56	88	39	50	4	12	1	13	1041	1292	2333
Grand totals.....	8688	8432	6160	6097	5007	5252	4226	4659	2992	3502	2112	2375	1414	1591	877	1134	31476	33042	64518
	17120		12257		10259		8885		6494		4487		3005		2011		31476	33042	64518

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Concluded.—RECAPITULATION.

	Males.	Females.	Totals.
Number in fifth year, Baltimore City College	32	2	34
" fourth year, Secondary Schools...	109	212	321
" third year, " "	184	287	471
" second year, " "	294	405	699
" first year, " "	532	657	1,189
Training Dep't, Baltimore City College.....	8	.....	8
" White Women	.....	88	88
" Colored.	12	28	40
Totals	1,171	1,679	2,850
Number in Grammar, eighth grade.....	877	1,134	2,011
" " seventh grade	1,414	1,591	3,005
" " sixth grade.....	2,112	2,375	4,487
" " fifth grade.....	2,992	3,502	6,494
" " fourth grade.....	4,226	4,659	8,885
Totals	11,621	13,261	24,882
Number in Primary, third grade.....	5,007	5,252	10,259
" " second grade.....	6,160	6,097	12,257
" " first grade.....	8,688	8,432	17,120
Totals	19,855	19,781	39,636
Number in Secondary Schools.....	1,171	1,679	2,850
" Grammar grades.....	11,621	13,261	24,882
" Primary grades.....	19,855	19,781	39,636
Totals	32,647	24,721	67,368

TABLE F.

	First Grade.		Second Grade		Third Grade		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		Grand Totals.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group A	263	295	240	235	223	192	204	202	120	131	68	67	51	49	29	30	1198	1201	2399
" B	414	352	256	256	178	218	200	166	87	104	98	68	38	32	17	31	1288	1227	2515
" C	407	389	364	373	305	262	175	246	157	167	76	107	40	40	24	37	1548	1621	3169
" D	473	526	305	349	228	254	213	237	142	169	66	68	29	25	21	12	1477	1640	3117
" E	389	331	278	250	236	277	237	225	157	176	115	112	98	72	47	38	1557	1481	3038
" F	464	594	265	256	213	218	147	171	147	170	79	110	53	52	35	56	1393	1427	2820
" G	517	568	366	424	317	319	201	253	100	141	102	123	31	76	30	49	1663	1954	3617
" H	311	299	204	231	184	186	158	188	103	137	81	77	63	78	43	49	1147	1245	2392
" I	370	380	288	261	221	242	187	143	177	219	153	165	137	167	53	96	1586	1673	3259
" J	550	504	388	376	235	267	214	205	143	164	92	94	37	41	29	22	1688	1673	3361
" K	332	312	259	260	238	244	205	201	160	187	127	152	71	95	60	86	1452	1537	2989
" L	113	119	90	79	78	71	48	65	27	27	16	17	16	10	.....	.....	388	388	776
" M	402	438	299	298	254	259	195	240	135	187	116	129	74	62	49	40	1524	1653	3177
" N	516	457	339	300	210	239	216	225	105	132	62	70	15	37	21	22	1484	1482	2966

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

TABLE F.—Concluded.

	First Grade.		Second Grade.		Third Grade.		Fourth Grade.		Fifth Grade.		Sixth Grade.		Seventh Grade.		Eighth Grade.		Totals.		Grand Totals.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Group O	461	456	272	273	287	282	186	247	151	147	83	111	50	55	36	52	1526	1623	3149
" P	294	210	202	161	139	148	182	210	125	123	61	56	42	42	19	25	1063	975	2038
" Q	379	265	218	234	195	221	177	180	105	142	125	149	106	128	58	87	1413	1406	2819
" R	234	258	191	191	207	201	198	198	150	193	101	115	56	82	43	70	1180	1308	2488
" S	217	266	217	166	167	137	161	138	137	128	82	125	126	111	74	73	1181	1144	2325
" T	236	224	143	119	146	145	123	133	145	154	135	124	82	102	82	87	1092	1088	2180
" U	201	183	176	188	190	138	242	284	173	191	137	146	109	135	70	102	1298	1367	2665
" V	437	486	326	345	234	333	173	219	115	150	55	103	61	46	22	33	1423	1715	3138
" W	272	297	168	191	156	156	111	101	75	75	43	37	25	42	15	24	865	923	1788
Practice Schools	436	423	256	281	166	243	83	182	56	88	39	50	4	12	1	13	1041	1292	2333
Total	8688	8432	6160	6097	5007	5252	4226	4659	2992	3502	2112	2375	1414	1591	877	1134	31476	33042	64518
Grand total	17120		12257		10259		8885		6494		4487		3005		2011		31476	33042	64518

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

MANUAL TRAINING CENTERS.

	Location.	Instructor.	Grades.		Groups.	Number of Pupils.		Total.
			Seventh.	Eighth.		Boys.	Girls.	
Manual Training Center, No. 1	Hopkins ave., near Federal street	Luther Forsythe	224	115	J, H, I, F	339		339
Manual Training Center, No. 2	S. W. Cor. of Greene and Fayette sts.	Frank Waterman	205	158	R, S, T	363		363
Manual Training Center, No 3	N. E. Cor. of Gilmor and Presstman sts.	Geo. P. McCeney	202	151	Q, T, U, V	353		353
Manual Training Center, No. 4	Light and Poultney streets	Chas. Pettit	112	99	C, M, L, N	211		211
Manual Training Center, No. 5	Twenty-second and Cromwell streets	Chas. Pettit	118		I, K	118		118
			861	523				1384

TABLES ACCOMPANYING SUPERINTENDENT'S REPORT.

COOKING CENTERS.

	Location.	Instructor.	Grades.		Groups.	Number of Pupils.		
			Seventh.	Eighth.		Boys.	Girls.	Total.
Cooking Center, No. 1.....	Hopkins ave., near Federal street.....	Edith Brown.....	156	.....	F, H, I, J.....	.....	156	156
Cooking Center, No. 2.....	Lexington st. and Carrollton ave.. ...	Ruth Mintzer.....	362	.....	Q, R, S, T, X, O	.....	362	362
Cooking Center, No. 3.....	Light and Poultney streets.....	Elizabeth Condit.....	115	.....	C, M, L, N.....	.....	115	115
Cooking Center, No. 4.....	Twenty-second and Cromwell streets...	Elizabeth Condit.....	167	.....	.....	.....	167	167
			.....	.....				800

PAPERS RELATING

—TO—

BALTIMORE CITY COLLEGE

FACULTY

FRANCIS A. SOPER, A.M., Principal,
Higher Mathematics.

CHARLES F. RADDATZ, Vice-Principal,
German.

POWHATAN CLARKE, M.D.,
Chemistry, Zoology and Physical Geography.

A. Z. HARTMAN, A.M.,
Latin and Greek.

JOSEPH H. ELLIOTT, Secretary of Faculty,
Commercial Subjects and Penmanship.

S. F. NORRIS,
Astronomy and Mathematics.

ALEXANDER HAMILTON,
Mathematics.

G. EMORY MORGAN, A.M.,
Latin.

PHILIP H. FRIESE,
Physics, Botany and Physical Geography.

JULIUS G. MILLER,
Mathematics.

JOHN F. ARTHUR,
English.

B. WHEELER SWEANY,
Drawing.

WILBUR F. SMITH,
English.

ARISTO M. SOHO, Ph.D.,
French, Spanish and Latin.

ROBERT H. WRIGHT, B.S.,
Political Economy, History and Civics.

DAVID E. WEGLEIN, A.B.,
Pedagogy, Psychology, Latin and Physical Geography.

RICHARD C. WILLIAMS, A.B.,
Latin.

CHARLES M. SMITH,
Stenography and Typewriting.

ERNEST J. BECKER, Ph.D.
German and English.

PERCY L. KAYE, Ph.D.,
History.

JOHN D. RODEFFER, Ph.D.,
English and History.

JOHN B. CRENSHAW, Ph.D.,
French and English.

CHARLES F. E. SCHULZ,
Physical Training.

JOHN LORETT,
Athletics.

Table showing the subjects taught in the Baltimore City College; also the number of classes in each subject, and the number of students pursuing each subject.

Subjects.	First Year.		Second Year.		Third Year		Fourth Year.		Fifth Year.		Training Group.	
	Classes.	Students.	Classes.	Students.	Classes.	Students.	Classes.	Students.	Classes.	Students.	Classes.	Students.
English	8	302	5	179	3	119	2	75	1	27	.....	.....
German	.....	.....	5	156	4	135	1	46	1	17	.....	.....
French	.....	.....	2	67	2	83	2	67	1	11	.....	.....
Spanish	.....	.....	.....	.....	1	16	.....	.....	.....	.....	.....	.....
Latin	8	263	4	169	2	59	1	34	1	15	.....	.....
Greek	.....	.....	1	11	1	11	1	5	.....	3	.....	.....
Algebra	8	302	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Geometry	.....	.....	3	112	.....	.....	.....	.....	.....	.....	.....	.....
Trigonometry	.....	.....	.....	.....	2	79	.....	.....	.....	.....	.....	.....
Analytics	.....	.....	.....	.....	.....	.....	2	53	.....	.....	.....	.....
Calculus	.....	.....	.....	.....	.....	.....	.....	.....	1	19	.....	.....
Physical Geography and Botany	7	256	.....	.....	.....	.....	.....	.....	.....	4	.....	4
Zoology	.....	.....	1	35	.....	.....	.....	.....	.....	4	.....	4
Chemistry	.....	.....	.....	.....	1	38	1	39	1	14	.....	.....
Physics	.....	.....	.....	.....	2	62	.....	12	.....	5	.....	4
Astronomy	.....	.....	.....	.....	.....	.....	.....	.....	1	28	.....	.....
History	7	248	2	50	1	34	2	56	.....	.....	.....	.....
Civics	.....	.....	.....	.....	.....	.....	2	56	.....	.....	.....	.....
Political Economy	.....	.....	.....	.....	.....	.....	1	28	.....	25	.....	.....
Pedagogy	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	1	4

History of Education							1	2		5		4
Bookkeeping			2	66	1	33						
Commercial Arithmetic			2	66								
Commercial Geography			2	66								
History of Commerce					2	35						
Commercial Law							1	18				
Stenography				2	40	1	13	1	10			
Typewriting						1	13	1	10			
Psychology							1	22		14		4
Drawing	8	317	5	177	1	13	1	25		6		
Physical Culture	3	106	3	79	1	27	1	8	1	13	1	4
Music										4	1	4

Graduates, 1903.

Frederick Bachmann,
Herbert Francis Verlin Balls,
David Simon Blondheim,
Joseph Edward Cook,
Emanuel Daniel,
William Henry Bayne Elliott,
Howard Freas,
George Cornelius Fritz,
James Fullerton Gressitt,
Ormond Willson Hammond, Jr.,
Edwin James Heath,
Frederick Henry Caspar Heise,
Joseph Stewart Hill,
James Carroll Hilton,
Arthur Ellt Hungerford,
Thomas Stran Jones,
Jesse Montefiore Joseph,
John Aubel Kratz,
Frank Sidle Lynn,
Myer Mintz,
Lee Newhoff,
Edward William Ortmann,
Edward Lionel Pierpont,
Howard Spence Purnell,
Lewis Bayard Robinson, Jr.,
Maurice Roland Schmidt,
Joseph Theophilus Singewald,
Edward Hinman Sirich,
Henry William Snyder,
William Henry Thearle,
Effingham Buckley Wagner,
George Louis Wagner, Jr.,
Robert Spencer Welch,
Emanuel George Zies.

Recipients of Peabody Prizes

OF THE FIRST GRADE, $100 EACH

Edward William Ortmann, Frederick Bachmann,
Henry William Snyder.

OF THE SECOND GRADE, $50 EACH.

Maurice Roland Schmidt, George Louis Wagner, Jr.,
Joseph Theophilus Singewald, Howard Spence Purnell.

Recipient of the Frederick Raine Medal.

Edward William Ortmann.

ROLL FOR THE YEAR 1903.

Number of students on roll December 31, 1902	622
Number admitted by promotion during 1903	298
Number admitted from private schools during 1903	37
Whole number on roll during 1903	957
Number withdrawn during 1903	231
Number graduated in June, 1903	34
Number re-entered during 1903	3
Number on roll December 31, 1903	692
Average attendance during 1903	600.6
Average number on roll during 1903	642.1
Percentage of attendance for the year	93.6
Number on roll June 30, 1903	572
Number returned after summer vacation	438
Number of new students entered after September 15, 1903	294
Whole number on roll from September 15 to December 31, 1903	732
Whole number withdrawn from September 15 to December 31, 1903	40

PAPERS RELATING
— TO THE —
EASTERN HIGH SCHOOL.

FACULTY.

WILLIAM F. WARDENBURG, Principal,
Mathematics and English.

LAURA V. DeVALIN, First Assistant,
English.

ELIZA E. NICOLAI,
English.

LEONORA E. CARPENTER,
History and Civics.

SUE M. LOHRFINCK,
English.

MARY C. BASIL,
Algebra.

KATHERINE M. LEWIS,
English and Geometry.

THEODOCIA B. MAHON,
Commercial Subjects and English.

MARGARET GARRETT,
Latin.

ANNA B. DIETRICHS,
German.

MARY McLEAN,
English and Latin.

REBECCA B. BROOKS,
Physical Geography and History.

IDA NEUMAN,
Botany and Zoology.

CHARLES M. SMITH,
Stenography and Typewriting.

MARTHA E. WIMER,
French.

ELIZABETH M. MAKIBBIN,
Drawing.

HELEN M. PLACE,
Music.

Table showing the subjects taught in the Eastern High School, the number of classes in each subject, and the number of pupils pursuing each subject.

	First Year.		Second Year.		Third Year.		Fourth Year.	
	Classes.	Pupils.	Classes.	Pupils.	Classes.	Pupils.	Classes.	Pupils.
Algebra	5	168	.....	.....	.....	.....	1	33
Arithmetic	.....	.....	1	28	.....	.....	1	33
Bookkeeping	...	.....	1	28	1	16	.....	.....
Botany	5	149	.....	.....	2	53	.....	.....
Civics	.....	.....	.....	....	.....	.....	1	38
Commercial Law	.....	...	.....	.....	.....	.....	1	39
Drawing	5	168	3	94	2	47	2	34
English	5	168	3	94	3	70	2	77
French	.....	.....	1	20	1	36	1	12
Geometry	.....	.....	2	70	1	12	.....	.....
German	.....	.....	3	88	2	65	1	40
History	5	166	1	27	2	59	1	38
Latin	3	100	2	43	1	22	1	27
Music	5	168	3	94	3	70	2	77
Stenography and Typewriting	.....	.....	.....	.....	1	16	1	39
Physical Culture	5	142	3	96	3	63	2	77
Physical Geography	5	158	.....	.....	.....	.....	1	38
Political Economy	.....	.....	.....	.....	.....	.....	1	39
Zoology	.....	.....	2	76	.....	.....	1	28

ROLL FOR THE YEAR.

Number of pupils on roll December 31, 1902	371
Number admitted by promotion during 1903	178
Number admitted from other public school systems during 1903	3
Number admitted by transfer during 1903	2
Total number in school during year 1903	554
Average enrollment	379
Average attendance (90.3 per cent)	343
Number withdrawn during 1903	82
Number transferred during 1903	1
Number graduated in 1903	61
Number on roll December 31, 1903	409

GRADUATES.

Celeste Marguerite Barker,
Elsie Bechtel,
Bertha Celina Behrens,
Harriet Blankford,
Ethel Brown,
Helen Taylor Burch,
Carrie Burgess,
Eurith Grace Burton,
Laura Belle Chapman,
Lillian Claire Clarke,
Ethel Lee Collenberg,
Katherine Viola Creamer,
Agnes Stewart Cunningham,
Clara Blaine Daneker,
Pearl Fountain,
Emma Sophia Fowler,
Frances B. Fox,
Anna Isabelle Friedel.
Clara Emma Friedel,
Anna Lee Gladfelter,
Elizabeth Ida Hackney,
Sarah Bertha Hillman,
Irene Ida Hirschman,
Katherine Hook,
Anita Jones,
Ruth Jones,
Cynthia Hazel King,
Grace Adelaide King,
Eva Adele Kirwan,
Edna Steen Lappe,
Margaret Irene Leonard,
Edna Little,
Ina May Marriott,
Agnes Irene MacWhirter,
Mary Elizabeth McCuen,
Ruby Frances Mister,
Annie Margaret Nelson.
Edna Walmsley Olwine,
Mabel Pearce,
May Elizabeth Philbin,
Maud Regester,
Johanna Wilhelmina Reiman,
Irene Reiner,
Katherine F. Reynolds,
Jennie R. Roddy,
Margaret M. Ryan,
Emma Sagle,
Mary Frances Sanders,
Annie Dena Siscovick,
Agnes Catherine Snyder.
Helen Stewart,
Edna N. Sumwalt,
Minnie Elizabeth Taylor,
Zelma Teal,
Georgie Tustin,
Augusta C. Utermohle,
Sara Inez Whittington,
Katie May Williams,
Nettie Elizabeth Wrightson,
Bessie Rose Yursik,
Mary Winifred Zirkler.

Recipients of Peabody Medals.

FIRST GRADE

Johanna Wilhelmina Reiman,
Irene Reiner,
Eurith Grace Burton,
Emma Sagle,
Katie May Williams.

SECOND GRADE.

Lillian Claire Clarke,
Clara Emma Friedel,
Cynthia Hazel King,
Mary Frances Sanders,
Nettie Elizabeth Wrightson,
Laura Belle Chapman,
Emma Sophia Fowler,
Agnes Stewart Cunningham,
Agnes Irene MacWhirter,
Edna Steen Lappe.

HONORABLE MENTION.

Anita Jones,
Agnes Catherine Snyder,
Helen Stewart,
Mabel Pearce,
Ruby Frances Mister,
Margaret M. Ryan,
Annie Dena Siscovick,
Annie Margaret Nelson,
Anna Isabelle Friedel,
Ethel Lee Collenberg.

PAPERS RELATING

— TO THE —

WESTERN HIGH SCHOOL.

FACULTY.

HENRY S. WEST, PH.D., PRINCIPAL,
English.

LOUISA C. SAUMENIG, FIRST ASSISTANT AND SECRETARY,
Mathematics.

PAMELA A. HARTMAN,
History, Grammar, Latin.

JANE S. WILLIAMS,
Commercial Studies.

HENRIETTA C. ADAMS,
History.

FRANCES RUTTER,
History.

ROBERTA DAVIS,
Drawing.

IMOGEN GEORGE,
English.

ELIZABETH HELSBY,
Drawing.

ANNIE W. NICHOLSON,
Latin.

M. THERESA DALLAM,
English.

ANNE E. WELTY,
Mathematics.

AUGUSTA F. DITTY,
English.

LOUISA E. THALWITZER,
German.

LIDA S. ECKEL,
Botany, Zoology.

MARY E. HUDGINS,
Latin.

LIZETTE W. REESE,
English.

EMILIE S. REINHARD, A.B.,
German.

NELLIE M. O'CONNOR,
Algebra, Geometry.

EMMA C. BASS, A.B.,
Physics, Astronomy, Physical Geography.

MARY B. ROCKWOOD, A.M.,
Latin.

LUCY E. MURRAY, A.B.,
Latin, English.

ALICE I. EMMONS, A.B.,
German, History.

V. GERTRUDE HAST, A.B.,
Algebra.

HENRIETTA A. CUENDET,
French.

MARY E. G. LENTZ, A.B.,
Botany, Physical Geography.

HENRIETTA G. BAKER,
Music.

FLORA M. PFOUTZ,
Stenography, Typewriting.

GERTRUDE V. KAHN, Special Assistant,
English.

COURSES OF STUDY.

First Year.

Class A.—12 sections; 425 pupils. Required: English and Algebra.

Elective: Latin, 9 sections (315 pupils); Ancient History, 6 sections (226 pupils); Botany and Physical Geography, 7 sections (259 pupils); class from Preparatory School, elective: German (18 pupils), or French (7 pupils).

Second Year.

Class B.—8 sections; 248 pupils. Required: English and Plane Geometry or Commercial Studies. Plane Geometry, 7 sections (212 pupils); Commercial Studies (Bookkeeping and Commercial Arithmetic), 1 section (36 pupils).

Elective: Latin, 6 sections (165 pupils); German, 6 sections (185 pupils); French, 2 sections (37 pupils)—number considerably augmented at recitation by *third* year pupils just beginning French; Mediæval History, 1 section (33 pupils); Zoology, 1 section (29 pupils).

Third Year.

Class C.—7 sections; 183 pupils. Required: English.

Elective: Latin, 2 sections (54 pupils); German, 4 sections (145 pupils); French, 2 sections (87 pupils); English History, 3 sections (100 pupils); Physics, 2 sections (60 pupils); Physical Geography and Botany, 1 section (33 pupils); Solid Geometry and Trigonometry, 1 section (21 pupils); Commercial Studies (Bookkeeping, Stenography and Typewriting), 1 section (30 pupils).

Fourth Year.

Class D.—4 sections; 106 pupils. Required: In Teachers' Preparatory Section (39 pupils), English, including Grammar, Mathematics, United States History and Civics, Science, Drawing, Music, Physical Culture.

Elective: English, 3 sections (92 pupils); Latin, 1 section, (23 pupils); German, 2 sections (60 pupils); French, 1 section (48 pupils); United States History and Civics, 3 sections (100 pupils); Astronomy, 1 section (32 pupils); Stenography and Typewriting, 1 section (15 pupils).

In addition to the foregoing *primary* studies, nearly all pupils in each year take Drawing and Music.

N. B.—All figures in the above report are of December 31, 1903, and the items under elective studies do not include certain girls in each year working on *special* schedules, different from the schedule of any section. Of course the subjects under "Required" do not include all the work that is obligatory; the full requirements for diploma may be found in the "Rules of the Program of Studies."

ENROLLMENT IN 1903.

On roll January 1		807
Admitted by promotion from Grammar Schools on February 1		45
Admitted by promotion from Grammar Schools in September		400
Admitted during year from schools other than Baltimore Grammar Schools		68
Whole number in attendance during the year		1,320
Withdrawn between January 1 and June 30	101	
Graduated in June	92	
Failed to return in September	106	
Withdrawn between September 30 and December 31	57	
		356
Number on roll December 31		964
Highest enrollment of the year, September 30		1,010

Numerical changes during the year in the several classes:

	1st Year.	2d Year.	3d Year.	4th Year.	Post Graduate.	Total.
On roll January 1	363	230	116	98	0	807
On roll December 31	425	248	183	106	2	964
Increase	62	18	67	8	2	157

. . . Graduates, 1903. . . .

Edith Pearl Arnold
Helen Keyser Bachrach
Elizabeth Raymond Ballard
Clara Aileen Barclay
Edna Bartlett
Irma Doris Binswanger
Ethel Florine Black
Mabel Loretto Blessing
Nancy Nelson Borrows
Virginia Allen Boteler
Katherine Loretto Byrne
Anna Virginia Carey
Martha Boughton Carter
Bertie Waters Cox
Edith Lee Dorsey
Lillian Clarette Downey
Helen Murtaugh Duke
May Emily Leslie Duke
Claudia Pauline Engel
Ella Lenora Faupel
Lois Clara Fisher
Elizabeth Regina Freburger
Pearl Kennedy Garrettson
Achsah Elizabeth Gibson
Regina Gichner
Ethel Lura Gosnell
Katharine Garland Grasty
Evelyn Clair Hamilton
Madeline Harris
Ethel Adelaide Heironimus
Elizabeth V. Henderson
Winnifred Heubeck
Maud Hissey
Mary Ada Hungerford
Rachel Geiger Irwin
Helen Hunt Jerome
Florence Wells Jones
Dorothy Kalbhenn
Amelia Dorothea Kemp
Henrietta Thomas Lawton
Margret Eulalia Livingston
Annie Lee Manning
Frances Elisabeth Marine
Regina Coblens Merfeld
Lilian DeMilliour Middleton
Cora Miller
Carolyn Augusta Mitchell
Mary Hester Mullikin
Edna Charles Myers
Emma Myrtle Nelson
Tulita M. Nicklas
Daisy Sayers Nolen
Meta Elizabeth Oehm
Helen Leonard Owens
Rhona W. Packett
J. Amanda Pulley
Fannie Elizabeth Pyle
Fannie Edna Pyles
Margaret Wilson Rand
Louise Merryman Requardt
Josephine Maida Revell
Anna Mary Ridout
Ethel Kemp Robertson
Mary Viola Robinson
Mary Edna Roe
Irma Rohlfing
Robina M. Rolph
Meta Rothholz
Laura Belle Ryon
Bertha Saylor
Mattie Grace Schaut
Carrie Byrd Schenkel
Emma Dufer Schumacher
Eda Annette Schwarz
Mary A. Seeds
Mabel Ray Sharretts
Etta Silverman
Loretta May Springer
Ida G. Stall
Mary Neale Stewart
Annie Fauntleroy Taliaferro
Grace Virginia Thomas
Blanche Stewart Van Daniker
Naomi Scattergood Walker
Emma A. Walter
Vera Warfield
Lena Rachel Waters
Nellie Wilder
Helen Pettit Winkelman
Alice Marion Young
Caroline Louise Ziegler
Emma Lange Zinkand (92)

Recipients of Peabody Medals.

FIRST GRADE

1 Irma Rohlfing
2 Loretta May Springer
3 Meta Rothholz
4 Mary Hester Mullikin
5 Mary Viola Robinson

SECOND GRADE

1 Helen Keyser Bachrach
2 Elizabeth V. Henderson
3 Nellie Wilder
4 Blanche Stewart Van Daniker
5 Helen Murtaugh Duke
6 Caroline Louise Ziegler
7 May Emily Leslie Duke
8 Edna Annette Schwarz
5 Dorothy Kalbhenn
10 Helen Leonard Owens

Scholarship in Woman's College of Baltimore.

Meta Rothholz

PAPERS RELATING

— TO THE —

BALTIMORE POLYTECHNIC INSTITUTE.

FACULTY.

WILLIAM R. KING, U. S. N., PRINCIPAL,
and
Head of Department of Engineering.

RICHARD H. UHRBROCK, PH.B., VICE-PRINCIPAL,
and
Head of Department of Mathematics.

WILLIAM H. HALL,
Head of Department of Science.

SAMUEL M. NORTH,
Head of Department of English, including History and Language.

STAFF.

JOHN WARD WILLSON, M.D.,
German, English Composition and Science.

SAMUEL D. PLATT,
Mechanical Drawing and Descriptive Geometry.

OLIVER BACHRACH,
Mathematics.

JOHN H. BRAMBLE,
Mathematics.

JOHN EDWARD BROADBELT, PH.G.,
Secretary and Science.

JOHN MONTGOMERY GAMBRILL,
History, Civics and Literature.

IRVING L. TWILLEY,
English.

GEORGE P. VON EIFF,
Science.

WILLIAM L. DEBAUFRE,
Engineering, Mathematics and Practice.

MECHANICAL DEPARTMENT.

WILLIAM G. RICHARDSON,
Machine Work and Engineering Materials.

THOMAS G. FORD,
Pattern-Making, Wood-Turning, and Mechanical Drawing.

WILLIAM A. JONES,
Forge and Sheet Metal Work.

GEORGE M. GAITHER,
Carpentry and Wood-Carving.

WARREN S. SEIPP,
Drawing, Sheet Metal, and Carpentry.

ROLL.

Number of pupils on roll December 31, 1902		258
Number of new pupils admitted during 1902		14
Number admitted by promotion during 1902		197
Number of pupils admitted by transfer during year 1902		4
Total number of pupils in school during year 1902		473
Number of third year graduates entered in fourth year	14	
Number of pupils who left and re-entered during year 1902	6	
		20
Number of pupils withdrawn during year 1902	89	
Number of pupils transferred to B. C. C. during year 1902	1	
Number of pupils graduated: Senior class, 28; post-graduate, 12	40	
		130
Number of pupils on roll December 31, 1902		363
Average number of pupils on roll during year 1902		306.1
Average attendance of pupils during year 1902 (93.9%)		287.5

Postgraduates, 1903.

FOUR YEAR COURSE.

John B. Cautley,
Robert Dall,
Arthur C. Davis,
William L. DeBaufre,
John K. Flickenschildt,
Walter M. Gieske,
Donald S. Hays,
John S. Hess,
I. Seeley Jones,
Leroy M. Langrall,
H. Quimby Layman,
Charles A. Pettit.

Graduates, 1903.

THREE YEAR COURSE.

Elmer Armiger,
Paul Backhaus,
Oscar F. Benjamin,
Owen C. Blades,
Harry N. Brannan,
Frank B. Burton,
William N. Crisp,
John W. Dorsey,
Christopher J. Frank,
Milton H. Gross,
Edward Hering,
Charles E. Herth,
James B. Jones,
Milton Kraemer,
Herman Lucke, Jr.,
Edmund C. Lynch,
Arthur B. Marston,
Harry M. Mason, Jr.,
Sidney Newhoff,
Manley P. Northam,
Harold M. Parsons,
Ernest M. Poole,
J. McDonnell Reid,
Martin J. Reynolds,
August H. Schaaf,
Howard I. Schulz,
George F. W. Sims,
Wilmer T. Stone.

Table showing the number of students pursuing the different subjects of the four-year course of the Baltimore Polytechnic Institute and the time devoted to each subject.

Subjects.	First Year.			Second Year.			Third Year.			Fourth Year.		
	Number of Students.	Number of Sections.	Periods Per Week.	Number of Students.	Number of Sections.	Periods Per Week.	Number of Students.	Number of Sections.	Periods Per Week.	Number of Students.	Number of Sections.	Periods Per Week.
Steam Engineering							47	2	4	13	1	3
Mechanics										13	1	3
Mechanical Drawing	210	5	4	92	3	5	47	2	4	13	1	4
Practice	210	5	6	92	3	6	47	2	6	13	1	4
Algebra	210	5	4	92	3	2						
Geometry	210	5	3	92	3	2						
Trigonometry				92	3	2	47	2	3			
Analytic Geometry							47	2	4			
Calculus										13	1	5
Physical Geography	210	5	2									
General Physics	210	5	2									
Heat				92	3	2						
Electricity				92	3	2	47	2	3	13	1	4
Chemistry							47	2	2	13	1	4
Composition and Rhetoric	210	5	2	92	3	2						
Literature	210	5	2	92	3	2	47	2	2			
History	210	5	3									
German				92	3	3	47	2	2			
Civics				92	3	2						
French										13	1	3
Preparation Periods	210	5	2									

PAPERS RELATING

—TO THE —

COLORED HIGH AND TRAINING SCHOOL.

FACULTY.

High School Department.

James N. H. Waring, A.M., M.D, Principal.
Joseph H. Lockerman, Vice-Principal.

MATHEMATICS,

Joseph H. Lockerman,
Fannie L. Barbour.

ENGLISH,

Cora B. Jackson, A.B.,
Lucy M. Davis, A.B.,
Corona L. Mason.

HISTORY,

Margaret B. Gregory.

LANGUAGES, ECONOMICS,

Mason A. Hawkins, A.B.

PHYSICS AND CHEMISTRY,

Dwight O. W. Holmes, A.B.

BIOLOGY AND GEOGRAPHY,

Thomas W. Turner, A.B.

FREEHAND DRAWING,

Daniel A. Brooks.

Boys' Manual Training Department.

MECHANICAL DRAWING,
Ralph V. Cook, M.E.

IRON AND MACHINE WORK,
Walter K. Jones.

WOODWORK AND ELECTRICITY,
Levi V. Moore.

Girls' Manual Training Department.

DRESSMAKING, MILLINERY, RAFFIA WORK,
Laura E. Miller,
Beulah S. Wilder.

DOMESTIC SCIENCE,
Helen H. Wingate.

Normal Department.

ASSISTANTS,
Lucinda Cook,
Anna O'H. Williamson.

Table showing number of pupils in each year of the Academic and Manual Training Course and the number of periods per week devoted to each subject.

	First Year.				Second Year.				Third Year.				Fourth Year.			
	Academic Course.		Manual Training Course.		Academic Course.		Manual Training Course.		Academic Course.		Manual Training Course.		Academic Course.		Manual Training Course.	
	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.	No. Pupils.	Periods Per Week.
Algebra	30	4	73	4	20	3	71	3	26	2	27	2	22	3	18	3
Arithmetic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22	*3	18	*3
Biology	.....	.....	.....	.....	.....	.....	.....	.....	26	3	27	3	22	4	18	4
Chemistry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22	4	18	4
Composition	30	3	73	3	20	3	71	3	26	2	27	2	22	2	18	4
Domestic Art	15	3	50	3	12	3	52	3	15	3	19	3	11	4	18	4
Domestic Science	15	3	50	3	.....	.....	64	3	.....	.....	38	3	.....	.....	32	3
Free Hand Drawing	30	2	73	2	20	2	71	2	26	2	27	2	22	2	18	2
Mechanical Drawing	.....	.....	73	2	.....	.....	71	2	.....	.....	.....	.....	.....	.....	.....	.....
Economics	.....	.....	.....	.....	.....	.....	.....	.....	26	2	27	2	.....	.....	.....	.....
English Grammar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22	*3	18	*3
Electricity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	3	.....	.....
Geography	30	3	73	3	.....	.....	.....	.....	.....	.....	.....	.....	22	*2	18	*3
Geometry	30	3	73	3	20	4	71	4	26	2	27	2	22	2	18	2
German	.....	.....	.....	.....	20	4	25	4	26	4	.....	.....	.....	.....	.....	.....
History	30	3	73	3	20	2	71	3	26	3	27	3	22	3	18	3
Ironwork	15	3	24	6	.....	.....	20	3	.....	.....	8	3	.....	3	.....	.....
Latin	30	5	.....	...	20	5	.....	.....	26	4	.....	.....	22	4	.....	.....
Literature	30	3	73	3	20	3	71	3	26	3	27	3	22	3	18	3
Music	30	1	73	1	20	1	71	1	26	1	27	1	22	1	18	1
Physics	30	2	30	2	20	2	71	2	26	3	27	4	.....	.....	.....	.....
Spelling	30	1	73	1	20	1	71	1	.....	.....	.....	.....	.....	.....	.....	.....
Woodwork	15	3	24	6	8	3	20	3	11	3	8	3	11	3	.....	.....

* For one quarter.

Graduating Class of 1903.

Gertrude Jane Armstrong,
Mildred May Bell,
Lillian Eliza Bishop,
Mary Elizabeth Butler,
Alice Ann Chambers,
Antoinette Amelia Clark,
Ella Sophia Cooper,
Rowena Curtis,
Georgia Minetta Elizb'th Dobson,
Mary Elizabeth Hall,
Bertha Estelle Hazelton,
Thekla Henson,
Minnie Theresa Beulah Jackson,
Mary Frances Jasper,
Bertha Belle Ellen Jenifer,
Ella Kennard,
Mabel Isidora Marlowe,
Viola Beatrice Tilghman,
Lucille Simms Wilson,
Martha Ellen Mindella Wilson.

James Edward Bantum,
William Henry Beckett,
Frank Edward Burgess,
Walter Henry Butler,
Charles Wilbert Harris,
Prentiss Roland Johnson,
Chester Maynard Lottier,
Warner William Neal,
Ozias Norris,
Robert Augustus Proctor,
William Henry Proctor,
Charles William Short,
Thomas Jerry Smith,
Charles Benjamin Spriggs,
John Franklin Thomas,
George Sumner White.

Alumni Prizes.

First Prize—Minnie T. B. Jackson.
Second Prize—Warner W. Neal.
Third Prize—Prentiss Roland Johnson.

HIGH SCHOOL DEPARTMENT.

Table Showing Enrollment for the Year.

Number of pupils on roll January 1, 1903		262
Number of new pupils admitted to school during the year		19
Number of pupils admitted to school by promotion during the year		93
Total number of pupils in school during the year		374
Number of pupils who left and re-entered the school during the year		16
Number of pupils withdrawn during the year	65	
Number of pupils promoted to Training School during the year	22	
		87
Number of pupils graduated June 19, 1903		36
Number of pupils in school December 31, 1903		287
Number of pupils in Academic Course		98
Number of pupils in Manual Training Course		187
Number of pupils in Special Manual Training Course		2
Average attendance of pupils during the year		259
Average enrollment of pupils during the year		267
Percentage of attendance of pupils during the year		97

NORMAL DEPARTMENT.

Enrollment for the Year.

Number of pupils on roll January 1, 1903	24
Number of pupils admitted during the year	24
Number of pupils withdrawn during the year	0
Number of pupils elected to substitute list during the year	8
Number of pupils in school December 31, 1903	40
Average attendance of pupils during the year	28
Average enrollment of pupils during the year	29
Percentage of attendance of pupils during the year	97

PAPERS RELATING

—TO—

TEACHERS' TRAINING SCHOOL.

FACULTY.

SARAH C. BROOKS, PRINCIPAL.
Psychology and School Management.

ELIZABETH J. FLEMING,
Method of the Recitation.
Special Method in Arithmetic, Literature and History.

PERSIS K. MILLER,
General Method.
Special Method in Nature Study and Geography.

ELIZABETH LOWRY NUNN.
Special Method in Reading, Physical Culture and Industrial Work.

With the assistance of—
OLIVIA F. KEACH, Supervisor of Drawing.
HELEN M. PLACE, Supervisor of Music.

COURSE OF STUDY.

First Term—
- Psychology.
- Three Great Educational Movements.
- Special Method in Literature and History, Nature Study and Geography, Arithmetic, Reading, Physical Culture and Industrial Work.
- Music and Drawing.

Second Term—
- Psychology and School Management.
- Method of the Recitation.
- General Method.
- Special Method in Literature and History, Arithmetic, Nature Study and Geography, Reading and Language, Physical Culture and Industrial Work.
- Music and Drawing.

PRACTICE WORK.

Each student is given from eight to ten weeks' practice under the direction of a practice teacher.

TIME DEVOTED TO THE SEVERAL SUBJECTS:

Literature and History, 4 periods per week.
Arithmetic, 5 periods per week during the first term; 2 periods during the second.
Geography and Nature Study, 5 periods per week.
Reading, 3 periods per week.
Language, 2 periods per week during second term; accompanies all other studies.
Educational movements, 5 periods per week during the first term.
General Method, 3 periods per week during second term.
Method of the Recitation, 3 periods per week during second term.
Psychology, 5 periods per week during first term; 2 periods per week during second term.
School Management, Primary Methods, 3 periods per week during second term.
Physical Culture, 2 periods per week.
Industrial Work, 2 periods per week.
Music, 2 periods per week.
Drawing, 2 periods per week.

REPORT

—OF THE—

SUPERVISOR OF SCHOOL BUILDINGS

—TO THE—

BOARD OF SCHOOL COMMISSIONERS,

DECEMBER 31, 1903.

BALTIMORE, January 1, 1904.

To the Board of School Commissioners:

I have the honor to submit the following report for the year ending December 31, 1903:

New Buildings.—The following new buildings were completed by the Building Department during the summer and were occupied about the beginning of the fall term:

School No. 62,	Walbrook avenue and Smallwood street....	23 class-rooms
" 74,	Cromwell and Twenty-second streets.....	23 "
" 83,	Lakewood avenue and Orleans street.....	21 "
" 84,	Johnson and Heath streets.....	21 "

Also the following additions:

School No. 55,	Hampden.....	12 class-rooms
" 54,	Huntingdon avenue.....	8 "
" 115,	Merryman's lane.....	2 "

The new building to be known as School No. 114, corner Mount and Saratoga streets, is nearing completion and should be ready for occupancy about March 1st.

The Schools Nos. 62, 74, 83, 84 are large brick buildings, three stories in height above a good basement; well planned

following more or less closely the arrangement of class-rooms, corridors and stairways as was provided in School No. 47. The stairways are well placed at the ends of the corridors; it would have been better had they been made fireproof, and in some instances the treads should have been wider and the risers not quite so high. The class-rooms are generally of the standard size, 26 feet by 32 feet, with good lighting, convenient cloakrooms, teachers' rooms, office, etc. The heating is by steam boilers, the requirement being 70 degrees in zero weather; and the ventilation is that known as the plenum system, the warmed air being forced into the class-rooms by means of fans or blowers at the rate of 30 cubic feet of air per minute for each pupil, and thence out of class-rooms through the vent flues. Latrines are provided in the basement, and drinking water and lavatories placed at convenient points. The architectural appearance of No. 62 and No. 74 is much better than is seen in No. 83 and No. 84.

Nos. 54 and 55 additions are two-story buildings, of brick, plain in appearance, but substantial, roomy, and well lighted. No. 55 is heated and ventilated by the same methods as those employed in No. 62, etc., but No. 54 is heated by two large portable furnaces, with no special provision for ventilation.

No 115 is a two-story frame addition, more or less temporary in character. It will be heated by stoves.

In the basement of School No. 74 rooms have been fitted up and furnished for Manual Training and Cooking School classes. Nos. 83 and 114 will be fitted up in like manner, and No. 62 will have the Cooking School only.

The entire grounds of School No. 74 should be paved with asphalt blocks. The play-grounds are limited and every available square foot should be made serviceable. If the children must play upon unpaved grounds, wet, and at times muddy, it will be next to impossible to keep the buildings clean. The building stands diagonally on the lot on the corner

Twenty-second and Cromwell streets, facing southeast; this position affords a splendid opportunity for terracing and landscape effect. Another advantage derived from the position of this building is the admission of sunshine into every room. Nothing adds more to the cheerfulness of a class-room than the presence of sunlight. More grading and paving should be done in the yards of all the new buildings.

PHOTOGRAPHS.

Photographs of the four new buildings, Nos. 62, 74, 83, 84, and plans of same are submitted with this report; also a photograph of No. 114, which is as yet unfinished.

PUPILS' DESKS.

The pupils' desks purchased for these new buildings are as described in the list below. The number placed in each class-room of standard size is fifty, which gives an average of sixteen square feet of floor space for each person, and very nearly 200 cubic feet. Nearly one-third of these new desks are of an adjustable pattern, both desk and chair being adjustable. In a number of the rooms the central block of desks or interior rows have been arranged with the fixed or non-adjustable desks, and the two outside rows with adjustable desks.

The desks purchased are as follows:

January 14.

From A. Flanagan Co., Chicago:

729 Primary, Superior, of cherry, at $2.85.
729 Intermediate, Superior, of cherry, at $2.95.
337 Grammar, Superior, of cherry, at $3.
190 Rear seats, Superior, of cherry, at $2.60.

From Wm. J. C. Dulany Co.:

351 "Ideal" primary desks and chairs, adjustable, cherry, at $3.90.
351 "Ideal" intermediate desks and chairs, adjustable, cherry, at $4.
202 "Ideal" grammar desks and chairs, adjustable, cherry, at $4.10.

July 1.

From A. Flanagan Co.:

661 Superior, primary, maple, with cherry finish, at $2.45.
400 Superior, intermediate, maple, with cherry finish, at $2.50.
150 Superior, grammar, maple, with cherry finish, at $2.55.
176 Superior, rear seats, maple, with cherry finish, at 2 30.

From Meyer & Thalheimer:

200 "Trenton," adjustable, intermediate, cherry, at $3.35.
30 "Trenton," adjustable, rear seats, cherry, at $2.85.

From Wm. J. C. Dulany Co.:

400 "Ideal" grammar desks and chairs, adjustable, cherry, at $3.90.
200 "Ideal" intermediate desks and chairs, adjustable, cherry, at $3.80.

From The Cushing Co.:

400 "Fidelity" desks and chairs, grammar, adjustable, cherry, at $4.05.
200 "Fidelity" desks and chairs, intermediate, adjustable, cherry, at $3.95.
200 "Friction Side" desks and chairs, intermediate, adjustable, cherry, at $3.50.
290 "Friction Side" desks and chairs, primary, adjustable, cherry, at $3.40.
150 "New Oxford" desks, grammar, maple, with cherry finish, at $2.80.
400 "New Oxford" desks, intermediate, maple, with cherry finish, at $2.70.
662 "New Oxford" desks, primary, maple, with cherry finish, at $2.60.
176 "New Oxford" rear seats, maple, with cherry finish, at $2.50.

SLATE BLACKBOARDS.

January 14.

From The Cushing Co.:

3,983 square feet at 19 cents.

July 1.

From The Cushing Co.:

18,000 square feet at 17⅜ cents.

Several hundred of old double Soper desks have been made over into single desks at moderate cost. These desks are in most respects as satisfactory as any of the modern patterns. They are strong, durable, of good appearance; their only

defect is that the seat is attached to the desk—it should be a chair, entirely separate from the desk.

School No. 10.—No progress has been made toward a new building further than the tearing down of the old one. The lot remains fenced in as was reported a year ago.

Rented Buildings.—The following rented buildings have been vacated since the occupancy of the new school houses:

No. 36, 2223 East Baltimore street.
No. 55 Branch, Third and Carroll avenues, Woodberry.
No. 62, Corner North avenue and Payson street.
No. 62 Branch, Walbrook avenue, near Payson street.
No. 80 Branch, Harford avenue and Federal street.
No. 97 Branch, 1741 East Baltimore street.

The two small dwellings, 124–126 North High street, having been purchased for the use of School No. 43, are no longer rented buildings.

CONDITION OF SCHOOL BUILDINGS.

The very liberal appropriations made in 1902 and 1903 have enabled the departments to place these buildings generally in good condition as to repairs. Some have had partitions altered, as at Nos. 25 and 33, and otherwise improved. No amount of money, however, that might be spent on some of the "delinquents" would materially improve them. On the score of the health of the community it would be better to supplant them with modern structures as rapidly as possible.

The condition of Nos. 58 and 1 should be improved at once. Both have unsanitary surroundings that are unsightly, discreditable, abominable and dangerous.

The alterations made during vacation by the Inspector of Buildings to stairways, etc., of School No. 13 are most decidedly creditable, and will contribute in a marked degree to the convenience and comfort of the children.

Table A will show the amounts expended for new school buildings and for additions and repairs to old buildings during the eight years from 1895 to 1902, inclusive, and the appropriations for same purposes in 1903.

TABLE A.

Repairs and Improvements.

	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
By Inspector of Bldgs.	$21,118 30	$18,999 93	$27,585 24	$44,999 50	$47,000 00	$77,691 98	$96,078 67	$113,260 63	$169,080 00
By School Board	17,685 13	19,126 20	21,033 14	60,356 84	30,210 47				
Total	$38,833 43	$38,126 13	$48,618 38	$105,356 34	$77,210 47				
New Buildings	245,626 60	144,546 72	146,704 52	112,287 29	87,427 42	4,729 43		32,313 29	170,691 31
New Bld'gs and Lots								132,097 88	52,000 00
Aggregate	$284,459 03	$182,672 85	$195,322 90	$217,643 63	$164,637 89	$82,421 41	$96,078 67	$277,671 80	$391,771 31

HEATING APPARATUS.

Stoves in Schools Nos. 26, 77, 70, 45, 44, 73, 26 and 15 have been removed and hot-air furnaces installed. It might be well to do this in a few more of the large schools, but it does not seem advisable to incur the expense of alteration and the increased cost of operating furnaces in the small, nor in the old "defective" buildings.

In some of the schools the old Barstow brick-set furnaces still remain. They should all be removed at the earliest practicable moment and more modern apparatus installed in their place. To maintain them longer in these schools is to risk the comfort and health of the occupants.

BASEMENT FLOORS.

All basement floors should be paved with brick or cement. In a number of the schools this has not been done, and, the dirt floors becoming very dry, they furnish the upper stories of the buildings with a larger quota of dust than is conducive to comfort or tidy appearance. This paving is very essential in the heating chambers.

CLEANING THE CLASSROOMS.

The best method of cleaning classroom floors is as yet an unsolved problem. Whether the floors shall have a coating of "floor-oil" applied three or four times a year, whether they shall be swept with the "dustless brush," whether the floors should be sprinkled with wet sawdust or water before sweeping, or whether swept with a dry broom, must be determined by local experience. Any practice that will keep the dust from the air of class-rooms is to be commended, provided its disadvantages are not serious.

SCHOOL BUILDINGS.

In a previous report a classification was made of the public school buildings of this city, they being grouped as follows.

Class No. 1, "Modern," School No. 47 being the best specimen of this class.

Class No. 2, "Good," School No. 34 as the type of this class.
Class No. 3, "Fair," School No. 33 is a fair type of this class.
Class No. 4, "Defective," School No. 1 as the type.
Class No. 5, "Very defective," School No. 21 as the type.
Class No. 6, "Delinquent," School No. 111 as the type.

For purposes of comparison, and to illustrate the general character of the school buildings, the plans of these six schools are presented with this report, and, in some cases, photographs of the buildings. (See Note, p. 118.)

The requirements of a modern school building are, in the main, as stated below:

a. *A properly arranged plan.* Only the most careful study, based upon the needs of the school, guided by intelligent comprehension and large experience, will be found qualified to produce a satisfactory and creditable result.

b. *Class-rooms of standard size.* Each pupil should have not less than fifteen square feet of floor space, and the rooms should be 25 or 26 feet wide by 30 to 32 feet long.

c. *Ample lighting.* Window or glass area for class-rooms should be one-sixth the floor area, never less.

d. *Fire-proof stairways.* These should be convenient of access, and have broad tread and easy rise.

e. *Thorough hygienic conditions* as to the building and its site.

f. *Heating* by approved methods, providing in each class-room not less than 30 cubic feet of air per minute for each pupil. The air should be properly warmed, not overheated, and should always contain a normal amount of moisture. Automatic or easy means of temperature regulation should be provided.

g. *Ventilation* of class-rooms, cloak-rooms, toilets, etc., should be constant, thorough, efficient; in class-rooms the vent registers should be distributed so as to avoid unpleasant drafts at the floor.

h. *Ample toilet* accommodation for teachers and pupils, in accord with approved sanitary requirements.

i. *An office* for the Principal; teachers' room, library, room for book storage, etc.

j. *Drinking fountains* on each floor.

k. *Janitors' closets*, sinks, means of heating water, ample fuel storage, etc.

l. *Large play grounds.*

m. *An assembly hall* should be provided whenever practicable.

n. *Good architectural design*, thorough and safe construction, honest building materials. Ornamentation is not essential—far from it. Simplicity of design is more appropriate. Beauty should depend upon symmetrical lines and the harmonious proportion of parts. School No. 61 is a fine example of good school-house architecture.

o. *A sufficient appropriation* to enable architect and builder to supply, by judicious planning and careful construction, the school-house that will satisfy the needs of the community.

Tested by these requirements, a critical examination of the plans of the six typical school-houses will bring early conviction that some of them, at least, do not measure up to a fair standard of excellence.

(The secondary or high schools are not considered in this examination.)

The plan of *School No. 47* is nearly ideal in all the essentials of good arrangement. The entrances are three—one in front centre and one on each end, all opening on a public street. The stairways are well located, are fireproof, of easy ascent; class-rooms large and well lighted, heated and ventilated. The playgrounds are large, the architectural design good and the construction creditable. A lack of coal storage room is possibly the only feature that deserves adverse criticism. There is no assembly hall here other than that afforded by two class-rooms that may be made one by means of large folding doors. This building more nearly furnishes all the essentials of a perfect school-house than any other in this city and might well be adopted as a model for future buildings.

School No. 34, the type of the "Good" class, is well planned, having entrances at opposite ends of a central longitudinal corridor, well-lighted class-rooms, proper stairways, cloak-rooms, etc., and fine yards. The class-rooms are somewhat smaller than in School No. 47. The architectural design is very pleasing. The heating is by hot-air furnaces and the ventilation by what is understood as the gravity system. This method of heating and ventilating cannot supply the amount of fresh air to class-rooms, as prescribed in paragraph f, and

consequently No. 34 is lacking in one essential of a thoroughly equipped building. In other respects, however, No. 34 is a very satisfactory school-house.

School No. 33 is a type of the class designated as "Fair."

The arrangement of the rooms and corridors is not good, too much space being wasted in the halls; class-rooms below the standard size; lighting of class-rooms insufficient and in halls very poor; stairways too steep and not fireproof; hygienic condition of basement poor, cellar being damp; heating by hot-air furnaces; ventilation by what is termed the "Smead" System, which is totally inadequate and may be, at certain times, worse than useless; the toilet accommodations are the Smead dry closets, and should be removed as soon as the requisite funds are available; the playgrounds are contracted; the architectural design very poor and the location a noisy one.

The most serious defects in this building are possible of correction or removal, and it could be made a fairly creditable school-house by the expenditure of a few thousand dollars.

School No. 1 as a type of the "Defective" class.

This building was erected in 1880. At that time it was considered important, in planning or arranging the class-rooms, to provide a large room for the principal, which should be so placed that all the other class-rooms (of each floor) should be grouped around it, so that from his desk the principal could command a view of the entire floor; the partitions between the class-rooms being of window sash, he could readily see from end to end of the building. Another reason for these glazed partitions was the desire to use the entire floor as an assembly hall. Most of the schools erected about that date were of this type. The disadvantages of the plan are readily apparent—every pupil entering (or nearly so, in this instance) must pass through the principal's room, much to the annoyance of his special class; the noise of one

class easily disturbing its neighbors, as the glass partitions are far from being sound-proof; and the difficulty of quickly dismissing the pupils. The lighting of class-rooms is good, the stairways are well placed and are wide and of easy ascent; the heating by old brick-set hot air furnaces, and the ventilation by means of large brick stacks which are heated by the smoke-pipes from the furnaces. This method was deemed adequate at the time the building was designed, but experience has demonstrated its unfitness, and no heating engineer to-day would consider it as other than crude and inefficient.

The toilet accommodation here is entirely inadequate, consisting of a brick privy in the yard having hardly one-fourth the requisite number of seats, and a few feet of flushing urinal. The chronic condition of this privy offers to every boy that enters a temptation to violate the rules of decency and the orders of his teacher.

Teachers' rooms and cloak-rooms are too few and too small. The cellar floor is unpaved, and the dust from the dry dirt floor finds easy access to class-rooms.

The yard or playground is small, averaging 20 feet by 100 feet, an average of 3 square feet to each pupil should they all take recess at the same time.

The architectural design is by no means a pleasing one.

School No. 21, of the "Very Defective" class.

The original plan of this building was very similar to that of School No. 1, having a large central room on each floor for the principal, and with glass partitions between rooms. Some changes in partitions have modified without improving the arrangement. The defects of this arrangement are more glaring than in No. 1, and they cause more annoyance. There is but one stairway in the building and one fire-escape outside, two small rooms for teachers; no cloak-rooms. The stoves were removed during the past summer and furnaces installed. Ventilation must be had by means of the windows. Cellar is unpaved. The yards are of fair size, and the new

toilets in yards have displaced the old privies. All toilets should be placed inside the building—not in the yards; the advantage of having them under cover in bad weather is apparent. The lighting of this building is not good, the windows being too small.

The normal seating capacity of the twelve class-rooms here is 404, and the total number of desks in class-rooms is 584. This gives an average of nearly ten and four-tenths square feet to each pupil, instead of fifteen feet each. This crowding of the class-rooms, which are without means of ventilation other than windows, is hardly the proper thing.

There are a number of buildings that belong rightfully to this class. What is best to do with them is a problem. To alter them and improve them, and make them what they should be, would incur large expense; to continue to use them in their present condition is unfair to the child who must spend his tenderest days in them.

School No. 111, which is typical of the "Delinquent" class.

There is nothing good that can be said of this building; if it meets a single requirement named in the above list the fact is not discernable by the average observer. The class-rooms are small and poorly lighted; the arrangement of rooms is very disadvantageous; there is but one stairway in the building, and that has its exit outside; there is one outside wooden stairway; the heating is by stoves, ventilation by windows; the old privies in yards have become very foul and are a constant source of discomfort, and the yards are small.

The normal seating capacity of the ten class-rooms is 213, and the total number of desks in rooms 394. The average floor space here allowed each pupil is eight and one-tenth square feet, which is but little more than one-half the proper allowance.

The seating per class-room is as follows:

Room.	Normal Seating Capacity.	No. of Seats in Room.
A	20	38
B	22	30
C	22	42
D	22	40
E	22	44
F	14	30
G	17	28
H	22	46
I	26	48
J	26	48
Totals	213	394

There is but one thing to do with such buildings—abandon them as soon as may be practicable.

FUEL.

Attention is again asked to the method of furnishing the schools with anthracite coal. Most of the large coal dealers decline to bid upon the specifications as now drawn. This eliminates desirable competition, with higher prices to the city as a result. The experience of the past three winters satisfies me that the coal is costing the Department from $5,000 to $6,000 more than it could be bought for under some other method. The quality furnished is poor.

It is recommended:

First. That authority to purchase coal for the schools be again placed under the control of this Department.

Second. That the "analysis clause" be eliminated from future specifications for the anthracite coal supply.

The quantity and kind of fuel consumed by each school during one year is shown in Table B.

Notwithstanding the great scarcity of coal during the winter of 1902-3, owing to the strike at the coal mines, by careful management the schools were all kept supplied, and it did not become necessary to close any one of them for a single day.

JANITOR SERVICE.

The changes made during the year 1903 were as follows:

Engineers appointed	7
" resigned	2
" deceased or dropped	1
Firemen appointed	28
" resigned	6
" deceased or dropped	11
Janitors appointed	2
" deceased, etc	1
Janitresses appointed	34
" resigned	16
" deceased or dropped	6

Total number of employees December 31, 1903:

Engineers	10
Firemen	78
Janitors and watchmen	9
Janitresses	199
Total	296

The Table B contains a variety of statistical information.

Respectfully submitted.

BENJ. B. OWENS, *Supervisor.*

NOTE:—The photographic plates that were intended for use in connection with this Report were all destroyed in the Great Fire,—hence none appear here.

TABLE B.

Group.	School.	Materials.	Stories.	Class Rooms.	Seats.	Heating Apparatus. Steam Boilers.	Smead Hot Air Furnaces.	F. W. Hot Air Furnaces.	Brick Set Furnaces.	Portable Furnaces.	Stoves.	Ventilation. Forced by Fans.	Gravity System.	Old Vent Stack.	Windows.	Smead System.	Stack Heaters.	Kind of Closet. Latrines.	Water Closets.	Smead Dry Closets.	Privies.	Fuel, July, 1902, to July, 1903. Hard Coal, Tons. No. 1.	No. 2.	No. 3.	Tons Sunbury.	Tons Bituminous.	Cords Wood.	Ordinary W. C.	Gas Range.	Gas in Building.	Electric Current.
A		Brick.	3	22	1068	2						a						a								97	1	1		a	
		"	2	8	341						9				d			b				3	15				2½			a	
		"	2	16	822		2		5	1	2					e	2	a				17	28	1		53	4½				
B		"	2	12	637		4									e	2	a					16	10		29	3		1	a	
		"	2	20	939		5				3					e	2	a					10	17		52	5		1	a	
		"	2	12	608						13				d			b				3	20	5		2	5½	2		a	
		"	2	13	725				4		3			c			2	a				10	19	6		30	3½			a	
		"	2	16	833		4				3					e	4	a				4	10	4		44	4½				
C		"	3	21	939	2						a						a											1	a	
		"	2	16	746					5	2				d			b					20		12	8	4½		1	a	
		"	2	12	306						14				d			b					21		8	5	3		2	a	
		"	2	11	463						12				d		1	a					10	15	3	5	3½		1	a	
		"	2	12	616		3			1	1					e	3			d		15	11	4	1	25	3		1	a	
		"	2	12	650		3		1							e	3			d		9	5	22	6	20	4				
D		"	2	16		Water 2					1			c				b					18			39	4½		1	a	
	W. Br.	"	3	10	1604					1	6				d						1	2	8			6	2½				
	E. Br.	"	3	10						2	1				d			b				2	10			3	1½		1	a	
		"	2	13	544						13				d			b				3	15			6	2½		1	a	
		"	2	14	696						18				d			b				3	21	5		6	5½		1	a	
		"	2	11	390						11				d						2	4	11	3		3	2		1	a	
E		"	2	18	834					6					d			a					23	13		12	4	1	1	a	
		"	3	9	388					1	9				d						2	3	20			5	1				
		"	3	13	631						15				d			b				5	22			3	5		1	a	
		"	2	12	616		3									e	2	a						9		49	1½				
		"	3	21	947	2						a						a											1	a	
F		"	2	16	777				5		6			c			2	a				10	22	9		50	3½			a	
		"	2	10	499					4					d		1	a				3	8			3	2½		1	a	
		"	2	10	572						11				d						2	3	15			6	1½		1	a	
	Branch	"	3	4							5				d						1	1	12	1		2	½			a	
		"	2	16	946				6		1			c			1	a				12	16	1		52	3		1	a	
		"	2	6	336						10				d			b				2	17			3	2		1	a	
G		"	2	24	1223				6	1				c			1	a				11	10	10		50	7		2	a	
	Branch	"	3	2							4				d						2	2	1	2			½	2		a	
		"	2	11	538					4					d						2		12			25	3		1	a	
		"	2	16	705					4					d			b					18	11		6	5		1	a	
		"	2	12	658						12				d			b				3	15	8		15	1		1	a	
		"	3	25	854				6	2	1			c				b				35	6	6		20	2½		1	a	
H		"	2	14	719					6					d		2	a					29	9			4½		1	a	
		"	2	11	670		3				2					e	3	a						8		30	1½		1	a	
		"	3	7	235						5				d						1			2		7		3	2	1		a	
		"	2	12	604				5		2			c				b				6	5	5		30	1½				
		"	2	12	640		3			1	1					e	3			d			9	28	2	32	3½		1	a	
I		"	2	25	1220		6				3					e	3	a							17	3	66	4½		1	a	
		"	2	30	1570					8	2				d		1	a				3	48	1	1	26	7		1	a	
		"	3	23	1088	2						a						a										1	1	a	
J		"	2	16	851		4			1	1					e	2	a					1	24	2	52	3½		1	a	
		"	3	11	618					2	10				d			a				2	18	5		20	2				
		"	2	12	629		3				1					e	2			d				14		32	2		1	a	
		"	2	26	1453		2		7		1			c			2	a				35	22	1		35	4		1	a	
K		"	2	16	1097						16				d						1		27	9		20	3		1	a	
	Branch	"	2	7							6				d						1		10	6			1				
		"	2	20	952				3	4	1			c			2	a					17	8		28	2				
		"	3	17	826	2					1	a								c						102	1		1	a	b
		Stone.	2	8	323						8				d						2		15	3		2		1			
		Frame.	1	4	249						4				d						1		5	3		2	½				
	Branch	"	2	2							2				d						1		3	2			½				
		Stone.	2	4	350						6				d						2		16			5	1½				
	Branch	Frame.	2	3							4				d						2		7	4			1½				
L		Brick.	2	18	840				6	2	4				d		2	a				41	16	6	5	25	3				
M		"	2	14	718					6					d		2	a					24		7	7	7		1	a	
		"	3	20	1011				8					c			3	b				59	3	3		10	2½		1	a	
		"	2	20	940				6	2				c			1	a				67	10		6	15	4½		1	a	
		"	2	12	613				5	2	2			c				b				33	6		4	10	3				
		"	3	16	729				7		2	a					2	a				48		3		15	3½		1	a	b
N		"	2	18	894				5	2	3			c			2	a				43	18		9	20	4½	2	1	a	
		"	2	14	660						16				d		1	a					21		6	6	6				
		"	2	15	696						16				d			b					16	7	8	6	4				
		"	2	12	660		4			2			b				2	a				9	3	4	6	24	3		1	a	
		"	2	9	372						9				d						1		9	3	2	4	1½				
		"	3	9	533						13				d						2		12	6	3	5	2				
O		"	2	12	577		3			1	2					e		a					10	25		30	4		1	a	
		"	2	16	796				4		2			c			1	a				20	17	9		15	3	1		a	
		"	2	13	619				4		2			c			1	a				20	9	6		15	3½				
	F. & K.	"	2	12							9				d						2		9	7		2	½				
	S. St.	"	3	6	617						6				d						1		3	7		2	1				
	Branch	Frame.	1	1							1				d						1			2		1	½				
	(R)	Brick.	3	7	487					2					d			b					3	12		8	½	1	1	a	
	Branch	"	3	4							4				d						2			6						a	
P		"	2	13	607	Water 1	4				1					e	2			d		1		39		50	2½				
		"	1	4	186						5				d						1		4	8		5	3				
		"	1	6	267		3				1					e	2			d		1		30		50	3				
		"	2	17	844	Water 2		6					b				4	a				21	16	18		15	2				
		"	2	8	378						8				d						1		7	8		6	½				
Q		"	2	17	749	1	4			1	1			c			4			d			10	28		10	4½				
		"	2	20	948				7	1	4			c			2	a					31	20		35	5		1	a	
		"	2	13	611	1	3			2	2					e	2			d			10	23	1	45	2½				
		"	2	10	492		2			2	3					e	1			d			9	27		42	2				
		"	3	7	300					1	1				d						1		6	8		2	2	1		a	
	Branch	"	1	1							1				d						2			3		1	½				
R		"	2	23	1248				8	4	4			c			1	a				4	33	23		35	6½		2	a	
		"	2	15	728					6	2				d		1	a					10	20		6	3½				
		"	2	12	542		3			1	1					e	3			d			9	26		30	4				
		"	2	12	528				3	2	2			c			1	a				10	21	11		20	3½				
S		"	2	16	831		4			1	1					e	2	a						41		40	2½		1	a	
		"	3	14	642				7	2	2			c				b				46	5	6		20	1½		1	a	
		"	2	16	709				6	2	2			c			1	b				47		6		20	2		1	a	
		"	2	14	577					4					d		1	b				7	15	5		20	3				
T		"	2	24	1097		6				1					e	4	a						64		40	4½		1	a	
		"	2	12	537					4	2				d						2		5	16		3	3½				
		"	2	16	831				5	1	1			c			2	a				46		6		15	3½	2			
		"	2	12	535					4					d		1	a					6	12		20	2½		1	a	
U		"	3	18	839		8				1					e	2	a						38		55	3½		1	a	b
		"	2	14	524				6		2	a					1	a				15	16	9		20	3			a	
		"	2	14	1038		4				2			c			1	a						25		35	3½		1	a	
	Branch	"	2	6							6					e	3				d			18		3	1				
		"	2	18	827					7	2				d		1	a					22	23		10	5½				
V		"	3	23	1056	2						a						a										1	1	a	
		Frame.	2	4	159						3				d						2		18			3	1				
		"	2	4	131					1					d					c			4	12		6	½				
		Brick.	3	18	1366		6																6	48		40	3		1	a	b
		"	2	8	460						9	a					2	a					7	12		3	2	1			
W		"	2	24	1194	2	3			1	1				d						2		8	20		44	3½				
		"	2	8	350						8	a				e	3	a		d			9	9		11	2				
		Frame.	1	6	304						7				d						2		12	5		2	3½				
		Brick.	2	8	442	Water 1					8				d						2		1	37		8	1½				
P.S.	C., H. & T.	"	2	16	289		4			1	8				d		1	a					22	23		10	5½				
	Br. C. H. & T.	"	2													e	4	a				5	12	32		49	2			a	
		"	2	12	600						12																				
		"	2	20	1014				4		4				d						1		7	13		3	2			a	
		"	2	12	549						12			c			2	a				42	6	19		30	3½	1			
		"													d			b					7	13		3	3	1		a	
	Admn. Bldg.	"	3			Water 1														c			15	13			½	5		a	b
	B. C. C.	"	4	22	1190	Steam 2							b											1		205				a	b
	E. H. S.	"	2	14	1094	Water 4				1	6											3	55	7		20	4			a	b
	W. H. S.	"	3	25	1223	Steam 2								c			1	a								140				a	b
	B. P. I.	"	3	13	448	2							b				2			c						149				a	b
	M. T. C. No. 1	"	1	1							2			c							1										
															d						1		4	3		1					

ANNUAL REPORT

—OF THE—

Superintendent of Lamps and Lighting

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

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Rules for the Government of the Employees of This Department.

1. District Superintendents will patrol the district to which each may be assigned, night and morning, and maintain a thorough and practical supervision over the street lighting system of the city, in order that the very best service may be obtained at all times. They must report all defective street lights in their respective districts and fully explain in their reports the cause of such defects.

2. They must see that the lanterns, globes, bottom glass, street signs and other lamp fixtures are properly adjusted and are kept thoroughly cleaned at all times, and must report any failure on the part of the contractors or their employees, to properly perform this work.

3 They must see that the street lamps are lighted each night and extinguished each morning strictly in accordance with the official schedule of lighting issued by this Department, and report any failure of the lamplighters to comply with this requirement.

4. They must thoroughly acquaint themselves with each and every condition in their respective districts bearing upon the work of this Department, in connection with the lighting service, and must make such recommendations as in their judgment will improve the street lighting system.

5. They must keep an accurate account of the number and location of all gas and naphtha street lamps and unused lamp posts in their respective districts, and be prepared to furnish the Superintendent of Lamps and Lighting information as to the exact location of each lamp and unused lamp post

6. When new street lamps are ordered by the Superintendent of Lamps and Lighting, the District Superintendents must see that they are placed in the exact location as ordered, and that the pavement at the base of each post is put in proper condition and report in writing to the Department when these lamps go into service. Lamps should not be placed against trees, telegraph or telephone poles.

7. They must keep an accurate account of all street lighting equipment, and must specify that portion of it that belongs to the city and that owned by the contractors. They must report to the Department

all broken or wrecked lamp posts and fixtures found in their respective districts, and see that all needed repairs are promptly made by the contractors, including the repair of the pavement at the base of all posts.

8. They must see that all the street signs which are attached to houses in the electric light districts of the city are properly adjusted, and must report to the Department any such signs that may be found hanging or out of place—giving the location where such signs are to be found.

They must report to the Department the necessity for street signs in such localities of their respective districts, where, in their judgment, the convenience of the public may demand, and must specify whether for street lamps, houses or unused lamp posts, giving the location where such signs are to be placed.

9. The District Superintendents will be required to make a lamp-to-lamp inspection every three months during the year, and must report all defects found and all repairs needed.

The method of this inspection must be conducted in the day time, and with the assistance of the lamplighters.

The District Superintendents with the assistance of the lamplighters will examine, in the most thorough manner, each street lamp, and must carefully note and report every defect found in connection with the lantern, burner and lamp post. They must note and report every lamp post found to be leaning, and report any defects found in the pavement at the base of each lamp post. They must also report the necessity for painting the lamp posts and fixtures.

After this inspection has been made, and the reports, setting forth the necessary repairs to be done, submitted to the Superintendent of Lamps and Lighting, the Districts Superintendents must follow up this work, and see that all repairs are made by the contractor in a manner satisfactory to the Department.

10. They must acquaint themselves with and keep a correct record of the location of all stores dealing in and selling at retail, coal oil, in their respective districts, and must collect at least three samples of coal oil each day from different dealers. They must also collect samples of oil from the delivery wagons of all companies and persons engaged in selling oil to local dealers.

11. Any District Superintendent who may be found guilty of any irregularities in connection with the collection of samples of oil will be promptly dismissed.

12. District Superintendents must report to the Department each morning not later than 10 o'clock.

13. Any District Superintendent who fails to comply with these rules in any particular will be dismissed.

INSPECTOR OF GAS METERS.

The Inspector of Gas Meters will perform the work of inspection strictly in accordance with the provisions of the law bearing upon the inspection of gas meters.

He must exercise the greatest care, not only in his inspection of the meters, but in the preparation of his reports and records bearing upon every detail in connection with his inspection, testing, sealing, etc., of each meter so as to avoid any errors which might give rise to confusion.

COLLECTOR OF GAS METERS.

The Collector of Gas Meters must be careful in removing and replacing all gas meters in the premises of the consumers.

In disconnecting the meter from the supply pipe at the residence of the complaining consumer, the utmost care must be taken by the mechanic or collector that all stop-cocks and gas burners throughout the house are turned off. He must be particularly careful in turning off the gas supply where it enters the cellar from the street, so as to prevent the escape of gas.

In replacing gas meters in the premises of the consumers when same have been found to be correct, the collector or mechanic must be careful to make the necessary connections to the service pipe of the company in a manner that will insure perfect safety against the escape of gas.

Before turning the supply of gas into the meter he must insist upon the occupants of the house to examine every gas burner in the house and see that the gas burner or stop-cocks are all turned off.

When he has received assurance from the occupants of the house or place of business that all gas and stop-cocks throughout the house or place of business are all turned off, he will then turn the supply of gas into the gas meter and will then make his usual tests for the purpose of finding any leaks or other defects of gas that may exist, and must resort to any other method which in his judgment will insure perfect safety against accidents of any kind.

Necessary materials, such as washers and other material, must be at all times in the possession of the collector or mechanic, so as to be ready for all emergencies.

Before removing the meter from the premises of the consumer, the collector or mechanic must call the attention of the consumer to any defects that may be discovered in the meter.

He will also be required to take monthly statements or readings of as and electric meters located in all municipal buildings, markets, etc.

INSPECTOR OF GAS AND OILS.

The Inspector of Gas and Oils will make all inspections of gas and oil strictly as required by the provisions of the law bearing upon the subject.

He must inspect at least twenty (20) samples of oil daily.

He must inspect at least 12 gas burners, which are to be taken from the street gas lamps and delivered to him by the mechanic of the Department every two weeks.

He must keep correct records of all tests of gas, oils and gas burners.

He must enter in a book, kept for that purpose, each day the statement of the result of all gas meter tests made in the Department.

He must also perform such other duties as may be ordered from time to time by the Superintendent of Lamps and Lighting.

THE INSPECTOR AT LARGE.

The Inspector at Large must keep general supervision of the electric arc light service throughout the city, ascertain the cause of all defective electric lights, and where it is within his power to do so he must correct the cause of the trouble; otherwise he must call the contractor's attention to the existing defects that the same may be adjusted promptly.

He must recommend any alterations or repairs of the electric arc lamps which he may find to be necessary for the improvement of the electric lighting service. He must superintend the erection of all additional electric lamps which may be ordered from time to time throughout the city, and also superintend all alterations, repairs and readjustments of all such lamps and equipment, and must report to the Department any failure on the part of the contractors or their employees to execute the work properly.

He must perform any other service that may be ordered from time to time by the Superintendent of Lamps and Lighting.

General Rules for the Government of all Employees of the Department.

1. Any employee of this Department who shall solicit contributions of money or material of any of the contractors doing work for the city through this Department, or from any other person employed by the contractors, either as a loan or otherwise, will be dismissed at once.

2. Any employee found under the influence of liquor, or who may be negligent or insubordinate, or in any way interfering with or obstructing the work of this Department, shall be suspended, pending an investigation.

3. Any employee who shall absent himself from work, without good and sufficient cause, will be dismissed.

4. Any employee who shall fail to comply with any of the rules which apply to his particular work, will be dismissed.

5. Employees must not, under any circumstances, entertain visitors or friends during office hours on other than business connected with the Department.

6. Any employee who shall make a misstatement, or who shall falsify his report as to his particular work, will be dismissed.

7. Employees must treat all persons having business with the Department with courtesy, and must conduct themselves with proper decorum at all times.

8. Employees must carefully read the foregoing rules and familiarize themselves with them.

REPORT.

OFFICE OF
SUPERINTENDENT OF LAMPS AND LIGHTING,
CITY HALL.

BALTIMORE, MD., January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN:

I have the honor to submit for your consideration the Twenty-fourth Annual Report, showing the condition of the street lighting service and the work performed by this Department during the year 1903.

The electric, gas and naphtha street lighting service was operated and maintained during the year 1903 under the requirements of the same contracts which were in force and which were set forth in my Annual Report for the year 1902.

ELECTRIC LIGHTS.

I am pleased to state that the electric street lighting service continues to be satisfactory in all requirements. The very efficient management established by the late Col. Milton W. Offutt, the former President and Manager of the United Electric Light and Power Company, has been ably maintained by Mr. P. O. Keilholtz, Consulting Engineer of the company, and his assistants, Messrs. G. F. Perin and William T. Russell, who have co-operated with the Department in all matters necessary in maintaining the standard of light required.

Defective conditions have at times prevailed in certain outlying sections of the city, but it has been found, as a result of our inspections, that these defects were, in a great measure, due to unavoidable causes, and therefore beyond the control of the company. These defects were corrected in a remarkably short time after having been called to the attention of the company.

The contract is operated by the United Electric Light and Power Company, and will expire September 13th, 1905.

The cost is $99.92 per lamp per annum, as against the cost of $127.75 per lamp per annum, which prevailed prior to September 13th, 1900.

The total number of electric lamps in service December 31st, 1903, is 1,603.

The following are copies of the specifications, contract and bond for electric lighting:

SPECIFICATIONS

For Installing and Maintaining Electric Arc Lamps, or for other Lamps of an Equal Candle Power, for the City of Baltimore.

1. Bids must be submitted in sealed envelopes, endorsed "Proposals for Electric Lights or for Other Lights of an Equal Candle Power," and addressed to the Board of Awards, in care of George N. Numsen, City Register.

2. All bids must be for lights now in service in the streets, lanes and alleys of Baltimore City, and are to include, at the proportionate rate, any others that may be ordered erected by the Superintendent of Lamps and Lighting within the corporate limits of the City of Baltimore.

3. The contractor shall furnish, erect and maintain all poles, wiring, lamps, connections and fixtures, including mast arms or brackets, as may be required, and shall keep in proper repair all poles, lamps and fixtures; and in case of any suits for damages caused by the electric current or want of it at points where lamps should be burning, or where wires are placed for the purpose of supplying said lamps, the contractor shall agree to defend all such suits at his own expense, and pay all damages for which the city may become liable by reason of such suits.

4. Poles for street lamps and circuits, and the apparatus of suspension for lamps, must not be dangerous, unsightly, or such as to incommode the adjoining property unnecessarily, but shall be erected in a manner satisfactory to the Superintendent of Lamps and Lighting, and his written approval of any new lamps erected under these specifications; his approval, however, shall not relieve the contractor of responsibility in case of accident or injury to person or property.

5. A current strength of not less than nine and six-tenths ($9\frac{6}{10}$) amperes, and a voltage of not less than fifty at each and every lamp, in each and every circuit, sufficient to produce what is known as a 2,000 candle-power light, must be maintained from time of starting up and during the hours of lighting, and every arc lamp shall be supplied with half-inch carbons of the best quality (and any lamp other than an arc lamp shall be supplied with the best quality Hydro-Carbon Mantels), with globes of clear glass, of uniform thickness and proper shape, to avoid casting rings or streaks of light and shadow; said globes to be kept clean and whole; and that all electric lamps used for lighting the streets shall burn with a clear, steady, white light, without undue flickering or hissing, each and every night during the term of this contract.

6. For the purpose of making tests of the current and voltage supplied to the lamps, and of examining apparatus and appliances, it is understood and agreed that the contractor will furnish to such proper person or persons as the Superintendent of Lamps and Lighting may authorize, access at all times to all lamps, poles, conduits, apparatus or machinery on the streets or to any of the stations of the contractor supplying current or light under this contract, and the said Superintendent of Lamps and Lighting shall have the privilege at any and all times the lamps are burning of testing any of the said circuits at such point or points as may be selected by the Superintendent of Lamps and Lighting, by the use of such standard measuring instruments as he may desire to use, and he shall maintain such instruments in circuit for so long a time as he may deem it advisable, and any electric or other high candle-power lamp not found up to the standard, as provided by these specifications, will not be considered as burning.

7. The Superintendent of Lamps and Lighting shall deduct two (2) nights' pay for every light not up to the standard, or two (2) nights' pay for each lamp upon a circuit not up to the standard, and five (5) nights' pay for any light which the contractor shall fail to light during the night; provided, that the Superintendent of Lamps and Lighting may, if the circumstances require in fairness that a less deduction be made, remit part of the penalty imposed by this section.

8. On or before the last day of each month the Superintendent of Lamps and Lighting shall furnish to the contractor a schedule showing the time when the lamps shall start to burn for each day of the next ensuing month, and the time when they shall be extinguished, which shall be approximately from sunset to half an hour to sunrise respectively.

9. If any lamp or lamps shall be extinguished or not lighted during a portion of the night exceeding thirty minutes consecutively, the Superintendent of Lamps and Lighting shall deduct from the bills of the contractor half the amount which the contractor would be entitled to receive if such lamp or lamps had been lighted during the whole night; for each and every lamp which shall be extinguished or not lighted for sixty minutes consecutively, the Superintendent of Lamps and Lighting shall deduct the full amount which the contractor would be entitled to receive if such lamp or lamps had been lighted the whole night, which deductions are hereby agreed upon, fixed and determined as liquidated damages which the contractor will suffer by reason of such lamps being extinguished as aforesaid, and not by way of penalty.

10. Any failure on the part of the contractor to light the lamps as required by the terms of these specifications, to such an extent as to require the city to provide for any other, or a similar character of light, which may be necessary to meet the conditions that exist as a result of such failure to light the city streets, the additional expense of all such emergency lighting shall be charged to the contractor under this contract.

11. The contractor must maintain, at his own expense, an efficient system of patrol for inspecting lamps during the hours they are burning, so that any lamp which fails to burn properly shall be promptly reported and put in order or immediately replaced. It is understood by the contractor that the utmost diligence shall be used in order that the streets, lanes and alleys shall be efficiently lighted, and to this end a sufficient number of men shall be employed as inspectors, so that each lamp may be examined at least three times per night.

12. The contractor shall, each day, before 12 o'clock noon, make a written report to the Superintendent of Lamps and Lighting, stating the number and location of any lamps extinguished or not burning on the preceding nights, if any; the time where each lamp was reported extinguished or not burning, and the time the lamp was replaced and started burning; and the said report shall also state the cause for each said lamp being extinguished or failing to burn; and if any of the said lamps are extinguished by reason of the failure of the current to supply said lamps, or for any other reason, his report shall contain a statement of the cause of such failure to supply current.

13. Lamps not burning in a manner satisfactory to the Superintendent of Lamps and Lighting shall be changed, and proper lamps substituted within twelve hours after the notice has been given by the Superintendent of Lamps and Lighting that the lamps referred to did not burn satisfactorily.

14. The Superintendent of Lamps and Lighting may require the contractor to furnish a vertical half-ground globe for the purpose of shading such house or houses as may be deemed advisable, in the judgment of the Superintendent of Lamps and Lighting, which the contractor shall then furnish without any additional cost

15. The contractor shall furnish to the Superintendent of Lamps and Lighting, within five days of his request, the number and geographical location of each lamp on each circuit, and shall also specify the order in which the lamps are located on the circuit. No changes from this schedule will be permitted except with the written permission of the Superintendent of Lamps and Lighting.

16. No service whatever, other than that contracted for by the city and maintained on the city circuits, shall be supplied from the circuits giving current to the city lamps under these specifications, unless such service shall be approved in writing by the Superintendent of Lamps and Lighting.

17. All safety appliances known to the best electrical practice shall be used throughout the system authorized directly or indirectly by this contract, and any improvements made in lamp fixtures by the contractor shall be made known to the Superintendent of Lamps and Lighting, and, if required by him, immediately supplied to all lamps furnished under this contract without additional cost.

18. Changes of location of lamps must be made by the contractor within a reasonable time after the receipt of the notice from the Superintendent of Lamps and Lighting, and the actual cost only of the labor used in making the change shall be charged to the city. The Superintendent of Lamps and Lighting reserves the right at any time to discontinue any lamp or lamps as he may deem expedient; provided, however, that the number of lamps contracted for under these specifications shall not be diminished so long as the contract made in pursuance thereof is in force.

19. All arc lamps and electrical supply service which are located in district shown on the map of city conduits, and are shown as connected into the city conduits by a lateral connection, are to be served entirely from circuits carried underground in said city conduits, and from all circuits carried underground in all conduits hereafter constructed, as soon thereafter as practicable. The lateral duct connection to and up the lamp pole for the proper distance will be made and owned by the

City of Baltimore. The cable furnishing service to each and every arc lamp within the contemplated underground district is to be owned and operated by the successful bidder, together with all appliances and devices necessary for the proper operation of the lamps. The cable which is to be used under these specifications, it is understood, may be purchased by the City of Baltimore at the expiration of the contract period at a price to be agreed upon between the successful bidder and the City of Baltimore. It is further conditioned that the successful bidder, upon execution of a satisfactory contract, is to pay unto the City of Baltimore for the use of the duct or ducts that may be occupied by the arc light cable a price per duct foot per annum as may be later fixed by the Electrical Commission and approved by the Mayor and City Council of Baltimore; said rental or price to be the same as that to be charged other companies or individuals for the same use, and not to exceed seven (7) cents per foot of duct per year.

20. The contractor under the specifications shall within ninety days after the expiration of this contract remove any and all lamps, lamp posts and fixtures used, erected and maintained by him for the city lighting, if so required by the Mayor and City Council of Baltimore.

21. Nothing in these specifications shall be construed to prohibit or prevent the Mayor and City Council from contracting for or establishing, using and maintaining their own electric lighting system for the purpose of lighting the city streets or any building under the control or supervision of the said Mayor and City Council, and when the said Mayor and City Council shall provide its own electrical lighting system the Mayor may, upon one year's notice to the contractor, annul the contract made in this specification; provided this concluding provision relating to annulling the contract upon one year's notice shall only apply to a contract which exceeds three years in duration.

22. In the employment of the laborers in the execution of this contract it is expressly understood that preference is to be given to the registered voters of the City of Baltimore.

23. The lamp posts, poles, conductors, lamps, carbons and each and every other article or apparatus which may be necessary for electric lighting are to be furnished and maintained by the contractor at his own cost and expense, and the lamps, wires and other conductors shall be thoroughly insulated, and shall be placed in such locations and in such manner as will prevent them from being tampered with or handled by any unauthorized person or persons, and the City of Baltimore shall not be held responsible for any injury or accident which may be occasioned by the conductors or electric current And the said contractor or contractors hereby further agree that he or they will indemnify and save harmless the City of Baltimore, its officers, agents or servants, and

each of them, against and from all suits and actions of every name and description brought against them, or any of them, and against and from all damages and costs to which they or any of them may be put by reason of injury to the person or property of another resulting from negligence or carelessness in the performance of said work of lighting the streets, or from any improper or defective material, machinery, implement or appliance used in performing the same, or from any act or omission of said contractors or their agents.

24. Each bidder must enclose with his bid a certified check for five hundred ($500) dollars, made payable to the order of the Mayor and City Council of Baltimore. The check of the successful bidder will not be returned until he has given a satisfactory bond for the proper carrying out of the contract. If he fails to furnish the bond as required within ten (10) days after the award is made his check shall be forfeited to the city.

25. And it is further agreed, that on and after the first day of each and every month during the term of this contract the contractor shall furnish proof to the satisfaction of the Superintendent of Lamps and Lighting that the said contractor has fully performed and fulfilled this contract in all the particulars and conditions aforesaid during the preceding month, and particularly that he has operated and maintained the lamps at the candle power produced by nine and six-tenths amperes, and a voltage of not less than fifty at each and every lamp, etc., as hereinbefore specified, and that all lamps have been kept clean and properly attended during all the time that the lamps were required to be kept lighted. Upon so doing the said Superintendent of Lamps and Lighting shall certify the fact, and in his certificate state the amount to which the contractor shall be entitled for all the duties performed by said contractor during such preceding month, and annex thereto a requisition upon the Comptroller to pay the contractor therefor the sum to which said contractor shall be so entitled; and without such proof to the satisfaction of the Superintendent of Lamps and Lighting, he shall not make any certificate nor requisition on the Comptroller; and without such proof being furnished by the contractor to the Superintendent of Lamps and Lighting, the said contractor shall not be or become entitled to any payment in respect to services which were required to be done, or should have been done, in such preceding month.

26. Bids must be for a term of one year. Proposals may be submitted in addition, however, for a term of two, three or five years.

27. Bond in double the contract price will be required, and the contractor, by said bond, shall indemnify and hold harmless the Mayor and City Council of Baltimore City against any and all claims which may

be made by reason of any infringement of any patent right in the use of the lamps, dynamos or any other article, apparatus or process which may be used in operating or maintaining the lamps under these specifications; and said bond shall also indemnify and hold harmless the Mayor and City Council of Baltimore, its officers, agents or servants, and each and every of them, against and from all suits of actions of every name and description brought against the Mayor and City Council of Baltimore, or any of its officers, agents or servants, and also from all damages and costs to which it, they or any of them may be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of its obligations under this contract, to wit: By lighting the streets, or from any improper or defective material, bracket, burner, implements or appliances used in the performance of the same, or from any act or omission of said contractor or its agents.

28. Failure on the part of the contractor to comply with any of the conditions of these specifications shall be sufficient cause for the Mayor to annul this contract upon giving thirty days' notice in writing to the contractor of his election to do so.

29. The Board of Awards reserves the right to reject any or all bids, or to accept any portion of a bid, as they may deem best for the interest of the City of Baltimore.

ROBERT J. MCCUEN,
Superintendent of Lamps and Lighting.

Approved as to form and legal sufficiency:

OLIN BRYAN,
First Assistant and Acting City Solicitor.

Approved:

THOMAS G. HAYES,
President Board of Awards.

CONTRACT.

THIS AGREEMENT, Made this 13th day of September, in the year nineteen hundred, by and between the Mayor and City Council of Baltimore, of the one part, and the United Electric Light and Power Company, a corporation duly incorporated under the laws of the State of Maryland, of the other part.

Whereas, Under and in conformity with the provisions of the New City Charter, proposals were duly advertised for lighting with electric arc lamps, in whole or in part, the avenues, streets, lanes, courts, alleys or highways of the City of Baltimore, and the parks of said city, by the party of the first part; and the party of the second part did submit bids,

in accordance with the said proposals and the specifications which were on file in the office of the Superintendent of Lamps and Lighting, unto the Board of Awards; and

Whereas, Said specifications provided for a contract to be made, if so desired, for the period of five years; and

Whereas, The bid of the said party of the second part to contract for the lighting in whole or in part of the said avenues, streets, lanes, alleys and other public places of the City of Baltimore, as also the parks of said city with electric arc lamps, where electric arc lamps are now used in the said City of Baltimore, as also for such other additional lights as may be hereafter deemed necessary by the Superintendent of Lamps and Lighting, at and for the price of ninety-nine dollars and ninety-two cents ($99.92) for each and every lamp for each year; provided the contract was made for the term of five years from the date of said award; and

Whereas, Said bid so submitted was duly accepted by the said Board of Awards for the period of five years from the date of said award, and the said United Electric Light and Power Company was thereupon awarded the contract for said period of five years at the said sum of ninety-nine dollars and ninety-two cents ($99.92) for each and every lamp for each year, upon the conditions, stipulations and specifications filed herewith, being a true copy of those which were filed in the office of the Superintendent of Lamps and Lighting when the advertisement was inserted.

Now, therefore, in consideration of the premises, and the further consideration of the contract for the lighting of the said avenues, streets, lanes, alleys and other public places of the City of Baltimore, including the parks thereof, where electric arc lights are now used, or may hereafter be ordered to be erected by the Superintendent of Lamps and Lighting, the said The United Electric Light and Power Company doth hereby covenant and agree that it will light and keep burning all the electric arc lights which are now, or may hereafter lawfully be placed in or upon any of the avenues, streets, lanes, alleys, courts or highways of the said City of Baltimore, or in any of the public parks thereof, upon the terms and conditions set forth in the said specifications on file with the Superintendent of Lamps and Lighting, a copy whereof, as hereinbefore referred to, is hereto annexed, and is intended to be, and does, in fact, form a part of this contract as fully as though the same had been set out in full herein.

And the said United Electric Light and Power Company doth further covenant and agree that it will, in all respects, comply with and fulfill the requirements of said specifications and each and every paragraph thereof.

And it is expressly agreed by the said The United Electric Light and Power Company, that whenever and as often as any of the said lamps in the City of Baltimore shall cease or fail to burn, it will use every means in its power to, and as soon as practicable, relight the same and keep said lamp or lamps burning for the remainder of the night, even though by the terms of the specifications the said United Electric Light and Power Company is to receive no pay for said lamp for that night by reason of the same having been out for one hour during the said night.

And it is expressly assented to by the said The United Electric Light and Power Company, that its failure to use every means in its power to relight, from time to time, and as often as the same shall go out, every light in the City of Baltimore, shall, in addition to the express causes set forth in the above contract and attached specifications, be a cause for the forfeiture of this contract under Section 28 of said specifications.

It is further covenanted and agreed that the said The United Electric Light and Power Company shall give unto the City of Baltimore a bond for the amount required by said specifications in some surety company, to be approved by the party of the first part, conditioned for the performance of all the terms of this contract.

And it is further covenanted and agreed that the party of the first part shall make monthly settlements with the party of the second part for the lighting of said city upon the terms agreed upon.

In witness whereof, the Mayor and City Council of Baltimore hath caused its seal to be affixed hereto, and the Mayor thereof, Thomas G. Hayes, to set his hand hereto; and the said The United Electric Light and Power Company has also signed this contract by its President, and has caused its corporate seal to be hereto attached, on the day and year first above written

THE UNITED ELECTRIC LIGHT AND POWER COMPANY,
By NELSON PERIN,
President.

Attest:
W. STUART SYMINGTON,
Secretary.

THOMAS G. HAYES,
Mayor.

Approved as to form and legal sufficiency:
WM. PINKNEY WHYTE,
City Solicitor.

[SEAL.] U. E. L. AND P. CO. OF BALTIMORE CITY.

BOND.

Know all men by these presents, That we, the United Electric Light and Power Company of Baltimore City and the Fidelity and Deposit Company of Maryland, a corporation of the State of Maryland, of the City of Baltimore and State of Maryland, are held and firmly bound unto the Mayor and City Council of Baltimore in the full and just sum of two hundred and fifty thousand dollars, lawful money, to be paid to the Mayor and City Council of Baltimore, or to its certain attorney, to which payment well and truly to be made and done, we bind ourselves, our heirs, executors and administrators, jointly and severally, firmly by these presents, sealed with our seals, and dated this thirteenth day of September, in the year nineteen hundred.

Whereas, The Board of Awards did, in pursuance to an advertisement, based on certain specifications, a copy of which were and are now on file in the office of the Superintendent of Lamps and Lighting, award to The United Electric Light and Power Company, on the 13th day of September, 1900, a yearly contract, to be renewed from year to year for the period of five years, at and for the sum of ninety nine dollars and ninety-two cents ($99.92) per year for each and every lamp; and

Whereas, The said The United Electric Light and Power Company is about to enter into said contract for the said time at the said price, the same to be paid in monthly installments; and

Whereas, It is a condition precedent to the execution and delivery of said contract that this bond shall be executed for the faithful performance thereof, and a strict compliance with each and all of the paragraphs of the specifications upon which said contract is based, and which is made a part thereof and a copy attached thereto; and

Whereas, It is agreed that the contract shall be included in and constitute a part of this bond as fully as though the same was set out in full in the body hereof.

F. & D. Co. of Md. [SEAL.]

And it is hereby agreed as part hereof, That this contract shall not be assigned without the written approval and consent of the Mayor and the Superintendent of Lamps and Lighting.

Now the condition of the obligation is such, That if the said United Electric Light and Power Company shall comply, in all respects, with the terms of said contract, and shall defend, indemnify and save harmless the Mayor and City Council of Baltimore against any suit or suits, loss, damage or expense to which the said Mayor and City Council may be subjected by reason of any default or negligence, want of skill, or care on the part of the said United Electric Light and Power Company,

its agents or employees, in or about the performance and execution of said work, then this obligation be null and void, otherwise to be and remain in full force and virtue in law.

Signed and sealed in the presence of

W. STUART SYMINGTON, *Secretary.*

THE UNITED ELECTRIC LIGHT AND POWER COMPANY OF BALTIMORE CITY.

By NELSON PERIN, *President.* [SEAL.]

FIDELITY AND DEPOSIT COMPANY OF MARYLAND.

Per E. M. WARFIELD, *President.* [SEAL.]

Attest: HARRY NICODEMUS,
Assistant Secretary. [SEAL.]

Bond Approved:
JAS. H. SMITH,
City Comptroller.

Form Approved:
WM. PINKNEY WHYTE,
City Solicitor.

[SEAL.] U. E. L. and P. COMPANY OF BALTIMORE CITY.

Approved:
THOMAS G. HAYES,
Mayor.

INCANDESCENT GAS LIGHTING SERVICE.

The incandescent gas lighting service has given satisfaction during the year, the equipment having been maintained by the contractor in good condition, and since the gas supply has shown an improvement; this system of street lighting measures up to all requirements.

Photometric tests of the gas burners and mantles are made at the laboratory of the Department when circumstances demand, for the purpose of ascertaining whether or not the standard of light is being maintained by the contractor.

Except at such times when conditions exist, over which the company has no control, the service measures up to the candle power required.

The contract is operated by the American Lighting Company of this city and will expire March 1, 1904.

The cost to the city is at the rate of $14.15 per lamp per annum, as against that of $21.50 per lamp per annum, which prevailed prior to November, 1900.

The total number of street gas lamps in service December 31, 1903, is 6,373, and 258 bridge and other cluster lamps, at the special rate of $17 per lamp per annum, including the supply of gas.

Beginning March 1, 1904, the American Lighting Company will commence the operation of a new contract, for a period of one year, which was awarded by the Board of Awards September 16 last, for all the street gas lamps at the rate of $13 per lamp per annum, $1.15 per lamp per annum less than the present cost to the city, and for all the gas lamps in the parks and public squares at the special rate of $18 per lamp per annum, including the cost for the supply of gas.

The saving to the city under the new contract, as compared with the cost under the present contract, will be about $7,000.

Following are copies of the specifications, contract and bond:

SPECIFICATIONS.

For the Lighting of the Streets, Lanes and Alleys of Baltimore City.

1 Bids must be submitted in sealed envelopes endorsed "Proposals for the Lighting of the Streets, Lanes and Alleys of Baltimore City," and in the care of George N. Numsen, City Register.

2. The contractor is required to equip and maintain street lights for the City of Baltimore of equal illuminating power with those now in use in said city; said lights may be of incandescent electric lights, or the Welsbach or any other similar device of not less than sixty (60) candle power for all the present gas lamps, or such number and in such location as the Superintendent of Lamps and Lighting may order—the minimum number during the term of this contract to be six (6,000) thousand, and also to equip in a similar manner as many more of said lamps as may be ordered from time to time by the Superintendent of Lamps and Lighting, and all of said lamps must be so equipped and ready for service within ninety (90) days after March 1, 1901. The contractor is further required to light, clean and extinguish, and maintain in thorough repair at all times and renew all of said lamps and fixtures and parts, so that the light shall at all times show the full candle-power guaranteed.

Bidders shall bid:

First. For all the above, including the supply of gas necessary to maintain and operate the said lamps; and

Second. Shall also bid for all the above, the supply of gas to be furnished by the city at the burner.

Third. For furnishing lamps and equipment complete, for electric incandescent street lighting, and the supply of electric current sufficient to produce and maintain a light not less than sixty (60) candle-power. Bidders are required to state in their bids the candle-power they propose to furnish, which shall not in any event be under sixty (60) candle-power. The city shall have the right at all times, by giving six hours' previous notice to the contractor, to make a photometric test of the candle-power furnished by the burner and lamps, at which test the city and the contractor shall be represented. The lamps shall be tested for candle power furnished under conditions substantially as they burn upon the streets, and in such manner as will determine the average candle-power of the light emanating from the lamp in every direction towards the street. A candle-power shall be the illumination produced by the consumption of one hundred and twenty grains of sperm per hour from the best quality English standard sperm candles.

3. The contractor shall keep all the lamp-posts, lanterns, equipments and property of the city painted and in thorough good order, supplying all broken parts, and shall deliver the same to the city at the end of the term in good order and condition. The burners shall remain the property of the contractor.

4. The contractor is required, if demanded by the Superintendent of Lamps and Lighting, to furnish, at his own cost, all the additional equipment necessary to fully carry out this contract, but the city reserves the right to purchase same, except burners, at the end of the term at cost price.

5. The contractor securing the work must carry it out under his own direction. Any assignment, sub-letting, or otherwise permitting the work herein specified to be done by any one other than the contractor, or encumbering it in any way, will be sufficient cause for the abrogation of this contract by the city. Bidders must show to the satisfaction of the Superintendent of Lamps and Lighting their ability to do the work specified.

6. The contractor must employ such number of men as is necessary to efficiently and promptly attend to the work required to give the city the best possible service, who must be registered voters of the City of Baltimore, except those having in charge the management of said work and service.

7. The lamps must be lighted and extinguished strictly in accordance with the schedule furnished by the Superintendent of Lamps and Lighting, which is approximately thirty-nine hundred hours per annum.

8. The contractor shall daily, before 12 o'clock noon, make a written report to the Superintendent of Lamps and Lighting, stating which lamps were out or defective the preceding night, if any; the length of time each lamp was out or defective, and the cause of such failure to burn, in accordance with the contract.

9. Any lamp that fails to burn continuously for the hours scheduled, and any lamp that is defective in burning, or which does not give the candle-power as required by the contract, will subject the contractor to a fine of double the contract price per lamp per night for each and every night such lamp remains defective, where the same is due to the fault of the contractor or his agents.

10. Change of location of lamps must be made by the contractor, at his expense, upon twenty-four (24) hours' notice by the Superintendent of Lamps and Lighting.

11. Lamps may be discontinued down to the minimum, and the number may be increased to any number at any time upon order of the Superintendent of Lamps and Lighting.

12. All lanterns, appliances and fixtures furnished under this contract shall be of the latest improved pattern, and any improvement made in lamp fixtures by the said contractor shall be made known to the Superintendent of Lamps and Lighting, and, if requested by him, immediately supplied by said contractor to all the lamps furnished under this contract, without additional cost.

13. Each bidder must enclose with his bid a certified check for fifteen hundred ($1,500) dollars, made payable to the order of the Mayor and City Council of Baltimore. The check of the successful bidder will not be returned until he has given a satisfactory bond for the proper carrying out of the contract. If he fails to furnish the bond as required within ten days after the award is made, his check shall be forfeited to the city.

14. Bids must be for the term of one year. Proposals may be submitted in addition, however, for the term of two, three or five years.

15. Bond in double the estimated contract price will be required upon the award of the contract conditioned for the faithful performance of each and every of the terms of the contract to be performed by the contractor as herein specified, and also to indemnify and protect the city against all claims for damages and all loss of any kind that may arise by reason of infringement of patent or patents, or by reason of any suit or suits that may be brought or prosecuted on account of any alleged infringement of patent or patents.

16. Failure to comply with any portion of these specifications after ten days' notice shall be sufficient cause for the abrogation of the contract.

17. The Board of Awards reserves the right to reject any or all bids, or to accept any portion of a bid, as they may deem for the best interest of the City of Baltimore.

ROBERT J. MCCUEN,
Superintendent of Lamps and Lighting.

Approved:

THOMAS G. HAYES,
President Board of Awards.

CONTRACT.

This contract, made and entered into this 28th day of March, in the of our Lord nineteen hundred and one, by and between Robt. J. McCuen, Superintendent of Lamps and Lighting of the City of Baltimore, for and on behalf of the Mayor and City Council of Baltimore, of the one part, and The American Lighting Company of Baltimore City, a body corporate, of the other part, witnesseth:

Whereas, The party of the first part, in pursuance of the power and authority in him vested, under and by virtue of the provisions of the City Charter, in Sections 14 and 15, did advertise for bids for the lighting of the streets, lanes and alleys of Baltimore city in conformity with certain specifications, which were, at the time of the insertion of said advertisement, on file in the office of the said Superintendent of Lamps and Lighting, a copy of which is hereto attached and made a part hereof, as fully as though the same were set forth in detail herein; and

Whereas, In compliance with said advertisement, which was inserted for the time required by the provisions of the said City Charter, the said The American Lighting Company of Baltimore City did submit its bid, addressed to George N. Numsen, City Register, which said bid so submitted was at the sum of fourteen dollars and fifteen cents per lamp per annum, for not less than six thousand lamps, as in the discretion of the Superintendent of Lamps and Lighting might be necessary, which said bid so submitted was the lowest bid for the furnishing of the lights under said specifications; and

Whereas, The Board of Awards did award to the said The American Lighting Company of Baltimore City, under its bid hereinbefore mentioned, the contract for lighting the City of Baltimore in accordance with and in strict conformity to the specifications hereinbefore referred to and made a part of this contract, for the period of three years dating from March 1, 1901.

Now, therefore, in consideration of the premises, and the sum of five dollars, the said Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City, party of the first part, and the said The American Lighting Company of Baltimore City, party of the second part, upon their respective parts do agree as follows:

First. The said The American Lighting Company of Baltimore City does hereby agree to furnish the necessary lighting for the streets, lanes and alleys of Baltimore city at and for the sum of fourteen dollars and fifteen cents per lamp per annum for the period of three years beginning on March 1, 1901, and ending February 29, 1904, in the manner and mode prescribed and set out in the specifications hereinbefore referred to, which are embodied in and made part of this contract, and to perform each and every provision stipulated in said specifications as to the manner of lighting and in all other things appertaining thereto.

Second. The party of the second part further agrees to save and keep harmless the party of the first part, as also the Mayor and City Council of Baltimore, from any loss, damage or injury arising from the use by the party of the second part of any patent owned, or claimed to be owned, by any one else, and also to protect and save the said Mayor and City Council of Baltimore from any loss, damage or injury arising from or caused by any delay in the performance of its duty as required by this contract, and the specifications referred to and made a part hereof, owing to the use by it, the party of the second part, of any patent owned by anybody else, either through l tigation or otherwise.

Third. The said The American Lighting Company of Baltimore city does upon its part agree to comply with and strictly perform each and every requirement, stipulation and condition of the said specifications in any and all particulars.

Fourth. That the said The American Lighting Company of Baltimore City does further agree that the burners shall be so regulated as not to permit the consumption of more than three cubic feet of gas per hour for each and every burner in use, without the lessening of the candle-power as specifically provided for in the specifications; provided the gas shall be of equal quality to that now consumed by the city lamps, and the pressure and general conditions the same as at present

Fifth. The said Robert J. McCuen, Superintendent of Lamps and Lighting, agrees upon his part to make monthly settlements with the party of the second part upon a pro rata basis, according to the number of lamps that are in actual use for each and every month, beginning with the month ending March 31, 1901.

In witness whereof the said party of the first part has hereunto set his hand, and by and with the approval of His Honor the Mayor, the corporate Seal of the Mayor and City Council of Baltimore has been affixed hereto.

And the said party of the second part has caused these presents to be duly signed by its President and attested under its corporate seal by its Secretary.

ROBERT J. McCUEN,
Superintendent of Lamps and Lighting.

AMERICAN LIGHTING COMPANY OF BALTIMORE CITY,
R. STANLEY CARSWELL,
President
HENRY STANSBURY,
Secretary.

SEAL

Test as to:
R. STANLEY CARSWELL,
HENRY STANSBURY,
OTTO BUEHNER, JR.

Approved:
THOMAS G. HAYES,
Mayor.

Approved as to form and legal sufficiency:
OLIN BRYAN,
First Assistant and Acting City Solicitor.

BOND.

Know all men by these presents, That we, The American Lighting Company of Baltimore City, and Robert S. Carswell and David M. Newbold of the City of Baltimore and State of Maryland, are held and firmly bound unto Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City, and the Mayor and City Council of Baltimore, in the full and just sum of one hundred and seventy-five thousand dollars, lawful money, to be paid to the said Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City, and the Mayor and City Council of Baltimore, or their certain attorney, to which payment, well and truly to be made and done, we bind ourselves, our successors and assigns, jointly and severally, firmly by these presents. Sealed with our seals and dated this twenty-eighth day of March in the year nineteen hundred and one.

Whereas, The Board of Awards of Baltimore City has awarded the contract for the lighting of the streets, lanes and alleys of the City of Baltimore to the said The American Lighting Company of Baltimore in accordance with the terms and conditions of said contract and the specifications, a copy of which is attached to said contract; and

Whereas, The said The American Lighting Company of Baltimore City agrees to save and keep harmless the said Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City, as also the Mayor and City Council of Baltimore, from any loss, damage or injury arising from the use by the said The American Lighting Company of Baltimore City of any patent owned or claimed to be owned by anyone else, and also to protect and save the said Mayor and City Council of Baltimore from any loss, damage or injury arising from or caused by any delay in the performance of its duty, as required by said contract and the specifications referred to, and made a part thereof, owing to the use by it, the said The American Lighting Company of Baltimore City, of any patent owned by anybody else, either through litigation or otherwise; and

Whereas, It is hereby agreed that the said The American Lighting Company of Baltimore City shall pay all mechanics or laboring hands employed by the day once each week, and it is further agreed that upon the failure on the part of the said The American Lighting Company of Baltimore City to comply with the above stipulation, the said day hands may file their bill under oath with the said Superintendent of Lamps and Lighting of Baltimore City for the number of days they were so employed, not to exceed one week. And it shall be the duty of the said Superintendent of Lamps and Lighting, if the pay of the said day hands shall be found by him to be in arrear, to pay the same, and to charge the same to the said The American Lighting Company of Baltimore City, and to deduct the same from any money that may be due to said The American Lighting Company of Baltimore City. And it is further agreed that the judgment of the said Superintendent of Lamps and Lighting shall be final as to whether any pay is actually due to any of the said day hands; and

Whereas, It is one of the conditions of said contract that the said The American Lighting Company of Baltimore City shall furnish a good and sufficient bond, with approved surety or sureties, for the faithful performance of all the terms and conditions of said contract.

Now the condition of this obligation is such that, if the said The American Lighting Company of Baltimore City shall comply in all respects with the terms of said contract, and shall defend, indemnify and save harmless the Mayor and City Council of Baltimore and the said Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City, against any suit or suits, loss, damage or expense to which the said Mayor and City Council of Baltimore or the said Robert J. McCuen, Superintendent of Lamps and Lighting of Baltimore City may be subjected by reason of any default or negligence, want of skill or care on the part of the said The American Lighting Company of

Baltimore City, its agents or employes, or any sub-contractor, in or about the performance and execution of said work, then this obligation is to be null and void, otherwise to be and remain in full force and virtue in law.

AMERICAN LIGHTING COMPANY OF BALTIMORE CITY,
R. STANLEY CARSWELL,
President..

ROBT. S. CARSWELL. [SEAL.]
DAVID M. NEWBOLD. [SEAL.]
HENRY STANSBURY,
Secretary.

Signed and sealed in the presence of:
DAVID M. NEWBOLD, JR.

Approved:
THOMAS G. HAYES, *Mayor.*

Approved as to form and legal sufficiency:
OLIN BRYAN,
First Assistant and Acting City Solicitor.

NEW CONTRACT FOR INCANDESCENT GAS STREET LIGHTING, IN EFFECT FROM MARCH 1, 1904, FOR A PERIOD OF ONE YEAR.

SPECIFICATIONS.

For Furnishing Burners and Appliances for Lighting the Streets, Lanes, Alleys, Public Squares, Parks and Bridges in the City of Baltimore with Incandescent Mantle Gas Lamps.

1. Bids or estimates must be submitted in sealed envelopes marked "Proposals for furnishing burners and appliances for lighting the streets, avenues, lanes, alleys, squares, parks and bridges," and addressed to the Board of Awards, in care of Harry F. Hooper, City Register.

2. The contractor will be required to furnish all fixtures, such as burners, mantles, globes and all other necessary appliances for incandescent gas lighting, of a similar device to those now in use in the City of Baltimore, or of the Welsbach type, or any other similar construction that will produce a light of not less than sixty (60) candle power, for all the present street gas lamps within said city, and for such addi-

tional number and in such locations as the Superintendent of Lamps and Lighting may order, the minimum number during the term of this contract to be six thousand two hundred (6,200), and all of the lamps now in service, and such additional lamps that may have been ordered installed in the period of time intervening between the award of this contract and the first day of March, 1904, must be so equipped and ready for service within (30) days after first said day of March, 1904, or within a reasonable time thereafter, not to exceed thirty (30) days.

3. The contractor will be required to submit his bid or estimate in accordance with the following plans:

A. To equip and maintain the present street lamps in the City of Baltimore and such additional lamps as may be ordered by the Superintendent of Lamps and Lighting, with incandescent mantle burners and fixtures to produce a light of not less than sixty (60) candle power. The contractor must estimate to light, extinguish, clean, maintain, operate and keep the lamps in thorough repair at all times, and renew said lamps, fixtures and parts when necessary, so that the light shall at all times show the full candle power required. The city will furnish the necessary supply of gas at the burner.

B. To equip and maintain the present street lamps in the City of Baltimore and such additional lamps as may be ordered by the Superintendent of Lamps and Lighting with incandescent mantle burners and all necessary parts, fixtures and appliances to produce a light not less than sixty (60) candle power.

The contractor must estimate to equip each lamp and to keep all such equipment in thorough repair, replace all broken and cracked globes and parts, and all broken or defective mantles.

The city will furnish the necessary gas supply at the burner and the labor required to light, extinguish, clean the globes, repair and paint the lamp-posts and lanterns.

C. To furnish, equip and maintain street lamps at the present locations in Baltimore and such additional street lamps as may be ordered by the Superintendent of Lamps and Lighting, with boulevard type of lanterns, with incandescent mantle burners and all necessary parts, fixtures and appliances, to produce a light of not less than sixty (60) candle power.

The contractor must estimate to equip, light, extinguish, clean the globes, maintain, operate and keep in thorough repair at all times, and renew said lamps, fixtures and parts when necessary so that the lights shall show the candle power required. The city will furnish the necessary supply of illuminating gas at the burner.

D. To furnish, equip and maintain street lamps at the present locations in the City of Baltimore, and such additional street lamps as may be ordered by the Superintendent of Lamps and Lighting, with boulevard type of lanterns, with incandescent mantle burners and all necessary parts, fixtures and appliances to produce a light of not less than sixty (60) candle power.

The contractor must estimate to equip each lamp and to keep all such equipment in thorough repair, replace all broken or cracked globes and parts and all broken or defective mantles. The city will furnish the necessary supply of gas at the burner, and the labor to light, extinguish, clean the globes, and repair and paint the lamp-posts and lanterns.

E. To furnish, equip and maintain lamps in clusters and singly upon the several bridges and in the several squares in the City of Baltimore, and such additional lamps as may be ordered by the Superintendent of Lamps and Lighting for such lighting, with improved and ornamental type of globes and lanterns to be approved by the said Superintendent of Lamps and Lighting, with incandescent mantle burners and all necessary parts, fixtures and appliances to produce a light not less than sixty (60) candle power. The contractor must estimate to furnish the labor to light, extinguish, clean the globes, operate and keep in thorough repair at all times, and renew said lamps, fixtures and appliances when necessary, furnish the necessary supply of gas at the burner so that the light will show at all times the candle power required.

F. To furnish, equip and maintain lamps in clusters and singly upon the several bridges and in the several squares in the City of Baltimore, and such additional lamps as may be ordered by the Superintendent of Lamps and Lighting for such lighting, with improved and ornamental type of globes and lanterns, to be approved by the said Superintendent of Lamps and Lighting, with incandescent mantle burners and all necessary parts, fixtures and appliances to produce a light of not less than sixty (60) candle power. The contractor must estimate to furnish and equip each lamp and keep all such equipment in thorough repair, replace all broken or cracked globes, parts and appliances, and all broken and defective mantles. The city will furnish the necessary supply of gas at the burner, and the labor to light, extinguish, clean the globes, repair and paint the lamp-posts and lanterns.

NOTE.—As these bridges and public square lamps are in large numbers and are concentrated in a small space, therefore less expensive to operate than if scattered, the contractor will be required to furnish an estimate for a less rate than for the general street lighting service.

G. To alter and equip the present "Miner" lanterns, now in use upon the streets of the City of Baltimore, with opal glass domes and copper ventilators and all other proper and necessary appliances for holding the same upon the lanterns.

4. The contractor shall equip each lamp with an incandescent mantle burner, so combined and adjusted as to secure under all ordinary variations of pressure and density, a candle power of not less than sixty (60), and not to consume more than two and three-quarter (2¾) cubic feet of gas per hour.

5. The contractor shall, without extra pay, unless otherwise specified or ordered, repair or replace all broken or damaged lamp-posts, lanterns or lamps, keep lanterns and lamps clean, promptly replace broken globes, and broken or missing street designations with new ones, and in general maintain the plant in first-class order to the satisfaction of the Superintendent of Lamps and Lighting. If not so done the repair or maintenance will be made by the City of Baltimore, under the supervision of the Superintendent of Lamps and Lighting, and the cost thereof deducted from any money due the contractor. The repairs will include painting the lamp-posts and lanterns once during the year if necessary. Painting will be done in a good and workmanlike manner, with paint of a color and quality to be determined by the Superintendent of Lamps and Lighting. The contractor will keep such of the city property as may be used in the operation of this contract in thorough good order, and shall deliver the same to the city at the expiration of the term of said contract in good order and condition.

6. All equipment furnished by the contractor and used in the operation of this contract shall remain the property of said contractor, but the City of Baltimore reserves the right to purchase said equipment, or any part thereof, except the burners, at the expiration of the term of said contract at cost price.

7. The contractor securing the work must carry it out under his own direction. Any assignment, sub-letting or otherwise permitting the work herein specified to be done by any one other than the contractor, or encumbering it in any way, will be sufficient cause for the abrogation of this contract by the city. Bidders must show to the satisfaction of the Superintendent of Lamps and Lighting their ability to do the work specified.

8. Unless the Board of Awards should award this contract in accordance with one of the plans, as hereinbefore mentioned, which requires that the city shall furnish the labor necessary to light, extinguish, clean and repair certain parts of the street lamps, the contractor must employ such number of men as is necessary to efficiently and promptly attend to the work required to give the city the best possible service.

9. The lamps must be lighted and extinguished strictly in accordance with the schedule furnished by the Superintendent of Lamps and Lighting, which is approximately four thousand (4000) hours per annum.

10. The contractor shall daily, before 12 o'clock noon, make a written report to the Superintendent of Lamps and Lighting, stating which lamps were out or defective the preceding night, if any, the length of time each lamp was out or defective, and the cause of such failure to burn, in accordance with the contract.

11. Any light that fails to burn continuously during the hours scheduled will subject the contractor to a fine equal to double the contract price per lamp per night for each night such light fails to burn. Any light that fails to produce the candle power required, viz.: not less than sixty (60) candle power, continuously for the hours scheduled will subject the contractor to a fine equal to one-half the contract price per lamp per night for the first night, and to a fine equal to the full contract price per lamp per night for each succeeding night such light fails to produce sixty (60) candle power, provided the cause of the defective conditions is due to the fault of the contractor or his agents.

12. The city shall have the right at all times by giving six hours previous notice to the contractor, to make photometic tests in such manner as may be determined upon by the Superintendent of Lamps and Lighting, for the purpose of ascertaining the candle power furnished by the burners and lamps, at which test the city and contractor shall be represented. A candle power shall be the illuminosity produced by the standard sperm candle consuming not more than one hundred and twenty (120) grains of sperm per hour, and the results of the test shall be determined by either the standard candle system or the Harcourt Pentane Standard.

13. Change of location of lamps must be made by the contractor upon twenty-four (24) hours notice from the Superintendent of Lamps and Lighting, for which the city will pay the actual cost thereof.

14. Lamps may be discontinued down to the minimum number, viz.: six thousand two hundred (6,200) and as many additional lamps will be installed as may be ordered by the Superintendent of Lamps and Lighting, and the Superintendent of Lamps and Lighting reserves the right at any time during the continuance of this contract, to increase or diminish the number of hours during which the street lamps are to be kept burning, and to change the schedule of lighting whenever conditions for the public convenience may demand.

15. Samples of all burners, lanterns or lamps, lamp fixtures, appliances and attachments, such as may be proposed to be used by the contractor in the operation of this contract, must be forwarded to the Department of the Superintendent of Lamps and Lighting, City Hall, Baltimore, Md , before the day set for opening the bids for this work. All samples must be marked in such manner as will designate the name of the proposed bidder, and all of the said samples must be subjected to an inspection and test if found necessary, such as may be determined upon by the Superintendent of Lamps and Lighting before or after the opening of said bids.

16. Any improvement made in lamp fixtures by the contractor shall be made known to the Superintendent of Lamps and Lighting, and, if requested by him, immediately supplied by said contractor to all the lamps furnished under this contract without additional cost to the city.

17. Any doubt as to the meaning of these specifications and any obscurity in the wording of them will be explained by the Superintendent of Lamps and Lighting, who shall have the right to correct any errors or omissions in them when such correction is necessary for the proper fulfillment of their intentions.

18 Should the contractor fail or neglect to commence the work at the time specified, or to operate, repair, paint, clean or fit up the lamps as hereinbefore specified, the Superintendent may and shall have the power to cause such work to be performed by other parties and to deduct the expense thereof from any moneys which may be due or may become due to the contractor, and to hold the contractor and his sureties liable for the amount thereof which may be in excess of the price stipulated in this contract, and in case such expense is less than the sum which would have been payable under this contract if the same had been completed by the contractor, he shall forfeit all claim to the difference.

19. If the contractor shall not well and truly observe, perform, fill and keep all and singular the covenants and conditions hereinbefore mentioned and contained, on its part and behalf to be observed, performed, fulfilled and kept according to the true intent and meaning of these specifications, then in that case the Superintendent of Lamps and Lighting, with and by the advice and consent of the Mayor, may and shall have the power, on the part of the City of Baltimore, to declare this contract annulled and vacated, and thereupon it shall become and be thenceforth null and void.

20. Each bidder must enclose with his bid a certified check for five hundred ($500) dollars, made payable to the order of the Mayor and City Council of Baltimore. The check of the successful bidder will not be returned until he has given a satisfactory bond for the proper

carrying out of the contract. If he fails to furnish the bond as required within ten days after the award is made his check shall be forfeited to the city.

21. Bids or estimates must be submitted for terms of one, two, three and five years.

22. Bond in double the estimated contract price will be required upon the award of the contract conditioned for the faithful performance of each and every of the terms of the contract to be performed by the contractor as herein specified, and also to indemnify and protect the city against all claims for damages, and all loss of any kind that may arise by reason of infringement or patent or patents, or by reason of any suit or suits that may be brought or prosecuted on account of any alleged infringement of patent or patents.

23. The Board of Awards reserves the right to reject any or all bids, or to accept any portion of a bid, as the members thereof may deem for the best interest of the City of Baltimore.

ROBT. J. MCCUEN,
Superintendent of Lamps and Lighting.

Approved:

ROBT. M. MCLANE,
President Board of Awards.

Approved as to legal form and sufficiency:

W. CABELL BRUCE,
City Solicitor.

This contract, made this 27th day of October, in the year 1903, by and between The American Lighting Company of Baltimore City, a private corporation, hereinafter called the Lighting Company, and the Mayor and City Council of Baltimore, a municipal corporation, hereinafter called the city

Whereas, The contract for lighting the streets, avenues, lanes, alleys, squares, parks and bridges in Baltimore city for the period of one year, accounting from the 1st day of March, in the year 1904, under Plans A and E, as the same are set forth in certain specifications, a copy of which is hereto attached, and in all respects made a part hereof, and subject to all the conditions, covenants, stipulations, terms and provisions contained in said specifications and applicable to said plans, has recently been awarded to the Lighting Company by the city through the agency of its Board of Awards, at and for the sum of thirteen dollars per lamp per annum, under said Plan A, and at and for the sum of eighteen dollars per lamp per annum for lamps in clusters, under said Plan E.

And Whereas, It was one of the conditions of said award that a formal contract should be executed by and between the Lighting Company and the city, evidencing the terms of said award.

Now, therefore, this contract witnesseth that the Lighting Company doth hereby covenant and agree with the city that it will well and faithfully light the streets, avenues, lanes, alleys, squares, parks and bridges in Baltimore city, under Plans A and E, as the same are set forth in said specifications, and in accordance with each and every one of the conditions, covenants, stipulations, terms and provisions contained in said specifications and applicable to said Plans A and E, at and for the respective rates of compensation per lamp per annum hereinbefore mentioned, for the period of one year, accounting from the 1st day of March, in the year 1904, and will well and faithfully comply with and perform each and every obligation imposed upon it by said specifications or the terms of said award.

And the city doth hereby covenant and agree with the Lighting Company that it will pay to the Lighting Company the respective rates of compensation per lamp per annum hereinbefore mentioned in monthly installments, adjusted with reference to the number of lamps in actual use during the several months of the said period of one year, accounting from the 1st day of March, in the year 1904, and that it will well and faithfully comply with and perform each and every obligation imposed upon it by said specifications, or the terms of said award.

In witness whereof, the Lighting Company has caused these presents to be signed by its president, and its corporate seal to be hereunto affixed, duly attested by its secretary, and the city has caused these presents to be signed by the Mayor of Baltimore City and the corporate seal of the city to be hereunto affixed, duly attested by the City Register.

THE AMERICAN LIGHTING COMPANY,

Test: R. STANLEY CARSWELL, *President.* [SEAL.]
C. R. DIFFENDERFER.

Attest:
E. S. NEWBOLD, *Secretary.*

Attest:
HARRY F. HOOPER, *City Register.*

ROBERT M. MCLANE, *Mayor.*

[SEAL.] Approved as to form and legal sufficiency.
W. CABELL BRUCE, *City Solicitor.*

THE ÆTNA INDEMNITY COMPANY, HARTFORD, CONNECTICUT.

BOND.

Know all men by these presents, That we, The American Lighting Company of Baltimore City, a body corporate, and the Ætna Indemnity Company, a corporation existing under and by virtue of the laws of the State of Connecticut, having its principal office in the City of Hartford, Connecticut, are held and firmly bound unto the Mayor and City Council of Baltimore in the full and just sum of one hundred and seventy thousand ($170,000) dollars, lawful money of the United States, to be paid to the said Mayor and City Council of Baltimore, or their certain attorney, to which payment well and truly to be made and done we bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

Whereas, The above bounden, The American Lighting Company of Baltimore City, has entered into a contract with the said Mayor and City Council of Baltimore, bearing even date herewith, for lighting the streets, avenues, lanes, alleys, squares, parks and bridges in Baltimore city, for the period of one year, accounting from the 1st day of March, in the year 1904, under certain plans and upon certain terms and conditions, in said contract more particularly mentioned; and

Whereas, It was one of the conditions of the award of the Board of Awards of said Mayor and City Council of Baltimore, pursuant to which said contract was entered into, that these presents should be executed.

Now, therefore, the condition of this obligation is such, that if the above bounden, the American Lighting Company of Baltimore City, shall, in all respects, comply with the terms and conditions of said contract, and its obligations thereunder, including the specifications therein referred to, and made part thereof, and shall indemnify and save harmless the said Mayor and City Council of Baltimore against or from all costs, expenses, damages, injury or loss to which the said Mayor and City Council of Baltimore may be subjected by reason of any wrongdoing, misconduct, want of care or skill, negligence, or default upon the part of the said The American Lighting Company of Baltimore City, its agents or employees, in or about the execution or performance of said contract, including said specifications, and shall save and keep harmless the said Mayor and City Council of Baltimore from any loss, damage or injury arising from the use by the said the American Lighting Company of Baltimore City, of any patent, owned

or claimed to be owned by anyone else, and also save and protect the said Mayor and City Council of Baltimore from any loss, damage or injury arising from or caused by any delay in the performance of its the said The American Lighting Company of Baltimore City's duty as required by said contract, including said specifications, owing to the use by it, The said American Lighting Company of Baltimore City, of any patent owned by anyone else, either through litigation or otherwise, then this obligation to be void; otherwise to be and remain in full force and virtue in law.

As witness the signature of the said American Lighting Company of Baltimore City, by its President, and its corporate seal attested by its Secretary, and the signature of the Ætna Indemnity Company, by its resident Vice-President, and its corporate seal duly attested by its Assistant Secretary, hereunto affixed this 27th day of October, in the year 1903.

[SEAL.]

THE AMERICAN LIGHTING COMPANY OF BALTIMORE,

R. STANLEY CARSWELL, *President.*

Witness:

C. R. DIFFENDERFFER.

Attest:

E. S. NEWBOLD, *Secretary.*

THE ÆTNA INDEMNITY COMPANY,

BY NICHOLAS G. PENNIMAN, *Resident Vice-President.*

Witness as to Ætna Indemnity Co.:

LOUIS M. SCHWAB.

(Seal) Attest:

KENNEDY R. OWEN, *Assistant Secretary.*

Approved:

ROBERT M. MCLANE, *Mayor.*

Approved:

J. W. FREEMAN, *Deputy City Comptroller.*

Approved as to form and legal sufficiency:

W. CABELL BRUCE, *City Solicitor.*

INCANDESCENT NAPHTHA LIGHTING SERVICE.

This system of street lighting has been in service throughout the city, where there are no gas mains, for the past two years, and has been maintained at a high standard of efficiency by the contractors to the entire satisfaction of the Department.

The contract for this service is operated by the American Lighting Company of Baltimore, and will expire December 31st, 1905.

The cost to the city is at the rate of $23.45 per lamp per annum, as against that of $28.50 per lamp per annum which prevailed during the year 1902 for the same system of street lighting.

The total number of naphtha lamps in service, December 31st, 1903, is 1089.

Following is a copy of the specifications:

SPECIFICATIONS

For Installing, Equipping, Lighting, Extinguishing and Maintaining Naphtha Street Lamps using Incandescent Mantles.

1. Separate bids must be submitted in sealed envelopes endorsed "Proposals for installing, equipping, lighting, extinguishing and maintaining naphtha street lamps using incandescent mantles," and addressed to the Board of Awards, in the care of George N. Numsen, City Register.

2. The contractor is required to equip and maintain naphtha lights of not less than sixty (60) candle power, which shall include the use of all fixtures for incandescent mantles, and all necessary appliances for operating the plant, including iron posts, as well as the labor for lighting and extinguishing all the naphtha street lamps now in use or which may be placed in use in the city under the supervision of the Superintendent of Lamps and Lighting.

3. Bids will also be received for furnishing and maintaining naphtha street lamps, using incandescent mantles, of not less than two hundred (200) candle power, which shall include the use of all fixtures for incandescent mantles and all necessary appliances for operating the plant, including iron posts, as well as the labor for lighting and extinguishing such number of these lamps that may be ordered placed in use, from time to time, in the city, under the supervision of the Superintendent of Lamps and Lighting.

4. The naphtha used for the supply of the lamps must be of a gravity of 72° to 75°, free from water, gum, glue or other impurities.

5. The incandescent mantles used must be of a good and standard quality.

6. Tests shall be made from time to time by the Superintendent of Lamps and Lighting, in such manner as he may determine, for the purpose of ascertaining the candle power of the lamps, and the gravity and quality of the naphtha used in supplying the same.

7. Each bidder must submit to the Superintendent of Lamps and Lighting, for his inspection, a sample of the lamp or lantern, fixtures and burner proposed to be used in the operation of the contract, and for the purpose of ascertaining the candle-power and efficiency of each burner and lamp the Superintendent of Lamps and Lighting reserves the right to place under a test, in such manner as he may determine, all such burners, lamps and fixtures.

8. The contractor will, without extra pay, repair posts, lanterns and lamps, keep lanterns and lamps clean, promptly replace broken glass, and in general maintain the plant in first-class order, and light and extinguish said lamps to the satisfaction of the Superintendent of Lamps and Lighting. If not so done the repair or maintenance will be made by the Superintendent of Lamps and Lighting, and the cost thereof deducted from any money due the contractor. The repair to include the painting of the lanterns and lamp-posts once during the year with paint of a color and material to be determined by the Superintendent of Lamps and Lighting.

9. The contractor will be required to establish such number of lamp-posts and lamps in such locations of the City of Baltimore as the Superintendent of Lamps and Lighting may direct, and furnish all material and labor that may be necessary.

10. Within a reasonable time after the receipt of the notice from the Superintendent of Lamps and Lighting the contractor will transfer any lamp or lamps, including lamp-posts, that may be ordered from one location to another, in any section of the city, and the cost in making the change shall be charged to the city, or to the party or parties upon whose application and in whose benefit such change of locations of lamps and lamp-posts shall have been made.

11. The Superintendent of Lamps and Lighting reserves the right at all times to discontinue the use of any lamp or lamps as the conditions existing may demand, and as he may deem expedient for the best interests of the city.

12. For every lamp that fails to burn continuously throughout the hours prescribed for a night, or that fails to furnish the candle power required under the terms of these specifications, a fine of double the

contract price per lamp per night will be imposed by the Superintendent of Lamps and Lighting for each and every night such lamps remain defective, which fine will be deducted from the amounts due the contractor and forfeited to the city, unless such failure results from no neglect or other fault of the contractor.

13. The contractor must employ such number of men as is necessary, who must be registered voters of the city of Baltimore, to efficiently and promptly attend to the work required by the terms of these specifications, that the city may obtain the best service possible.

14. The lamps must be lighted aud extinguished strictly in accordance with the schedule furnished by the Superintendent of Lamps and Lighting, which is approximately 3,900 hours per annum.

15. The contractor shall daily, before 12 o'clock noon, make a written report to the Superintendent of Lamps and Lighting, stating the number and location of all lamps that may be found defective, or extinguished, or not burning on the preceding night, if any, and the length of time each lamp failed to burn, and the cause thereof.

16. All lanterns, appliances and fixtures furnished under the contract shall be of the latest improved pattern, and any improvements made in lamp fixtures by the contractor shall be made known to the Superintendent of Lamps and Lighting, and, if requested by him, immediately supplied by said contractor to all lamps furnished, without additional cost.

17. Failure to commence the work of this contract at the time specified, or to prosecute it thereafter in a satisfactory manner, in the opinion of the Superintendent of Lamps and Lighting, for its entire completion, will be authority for the said Superintendent of Lamps and Lighting, with the consent of the Mayor, to suspend the contractors from the work and employ other parties to complete it, or wholly annul said work, and any excess of cost over and above the amount so retained will be charged against the contractor and sureties, who will each and severally be held liable therefor.

18. The contractor must conform to all laws now in existence in the city of Baltimore bearing upon the employment and treatment of all mechanics and laborers which may be engaged in the work of this contract.

19. Bond in double the estimated contract price will be required upon the award of the contract conditioned for the faithful performance of each and every one of the terms of the contract to be performed by the contractor as herein specified, and also to indemnify and protect the city against all claims for damages and all loss of any kind that may arise by reason of infringement of patent or patents, or by reason of any suit or suits that may be brought or prosecuted on account of any alleged infringement of patent or patents, or by reason

of any default or negligence, want of skill or care on the part of the contractor, his agents or employees, in or about the performance or execution of the work necessary in carrying out the contract.

20. A certified check for one thousand dollars ($1,000), made payable to the order of the Mayor and City Council of Baltimore, must accompany each bid.

21. The check of the successful bidder will not be returned until he has given a satisfactory bond. If he fails to furnish the bond, as required by Section 19 of these specifications, within ten days after the award of the contract is made, his check shall be forfeited to the city.

22. Bids must be submitted for a term of one year, beginning January 1, 1903, and ending December 31, 1903.

Bids must be submitted in addition, however, for the terms of two, three and five years.

23. Failure to comply with any portion of these specifications shall be sufficient cause for the abrogation of the contract.

24. The Board of Awards reserves the right to reject any or all bids or to accept any portion of a bid, as they may deem for the best interests of the city of Baltimore.

ROBERT J. MCCUEN,
Superintendent of Lamps and Lighting.

Approved:

THOMAS G. HAYES,
President of Board of Awards.

Note —Contract and bond not yet passed upon by City Solicitor, owing to pending litigation.

GAS FOR STREET LIGHTING.

The supply of illuminating gas for the city street lamps is furnished by the Consolidated Gas Company of Baltimore under a contract which was awarded by the Board of Awards for a period of two years, beginning June 1, 1903, at the rate of $7.25 per lamp per annum, as against the cost of $10.13 per lamp per annum, which prevailed prior to June, 1900.

During the year there has been a very marked improvement in the quality and pressure of the gas service, and, in my judgment, when the extensive modern improvements which have been projected by the new management of the company are entirely completed, the most satisfactory conditions must necessarily prevail.

Following are copies of the specifications, proposals, contract and bond:

SPECIFICATIONS

For Furnishing All the Illuininating Gas Necessary for Supplying All the Street Lamps Used in Lighting the Streets, Avenues, Lanes, Alleys and Highways of Baltimore City.

1. Bids must be submitted in sealed envelopes marked "Proposals for Furnishing Illuminating Gas Necessary for Supplying All the Street Lamps Within the City of Baltimore," and addressed to the Board of Awards, in care of the City Register.

2. The contractor must state in his bid the price of gas per lamp per annum for all the gas lamps now in service, the minimum number during the term of the contract to be sixty-two hundred (6,200), and also for as many additional street lamps as may be ordered hereafter from time to time by the Superintendent of Lamps and Lighting, each lamp not to exceed four thousand (4,000) burning hours in any one year or to burn more than two and one-half cubic feet of gas in any one hour.

3. It is hereby agreed by the city to pay the contractor for the gas purchased under the terms of this contract in monthly payments.

4. Each bidder must enclose with his bid a certified check for the sum of one hundred ($100) dollars, made payable to the order of the Mayor and City Council of Baltimore. The check of the successful bidder will not be returned until after he has given a satisfactory bond for the proper performance of the terms of this contract. If he fails to furnish bond, as required, within ten days after the award of this contract is made, his check shall be forfeited to the city.

5. Bids must be for a term of two years, commencing the 1st day of June, 1903.

6. Bond in double the estimated contract price will be required upon the award of the contract, conditioned for the faithful performance of each and every of the terms of the contract to be performed by the contractor as herein specified.

7. The Board of Awards reserves the right to reject any or all bids.

ROBT. J. MCCUEN,
Superintendent of Lamps and Lighting.

Approved:

ROBERT M. MCLANE,
President Board of Awards.

This contract, made and entered into this 23d day of June, in the year of our Lord nineteen hundred and three, by and between Robert J. McCuen, Superintendent of Lamps and Lighting of the City of Baltimore, for and on behalf of the Mayor and City Council of Baltimore, party of the first part, and The Consolidated Gas Company of Baltimore City, a corporation organized under the laws of the State of Maryland, party of the second part.

Witnesseth: Whereas, The party of the first part, in pursuance of the power and authority in him vested, under and by virtue of the provisions of the City Charter, in Sections 14 and 15, did advertise for bids for the illuminating gas necessary in supplying all the street lamps within the City of Baltimore in conformity with certain specifications, which were, at the time of the insertion of said advertisement, on file in the office of the said Superintendent of Lamps and Lighting, a copy of which is hereto attached and made a part thereof, as fully as though the same were set forth in detail herein; and

Whereas, In compliance with said advertisement, which was inserted for the time required by the provisions of the said City Charter, the said The Consolidated Gas Company of Baltimore City did submit its bid, addressed to the Honorable, the members of the Board of Awards of Baltimore City, care of Harry F. Hooper, Esq., City Register, which said bid was at the rate of seven dollars and twenty-five ($7.25) cents per lamp per annum for the lamps now in service, which said bid so submitted was the lowest bid for the furnishing of the gas under said specifications; and

Whereas, The Board of Awards did award to the said The Consolidated Gas Company of Baltimore City under its bid hereinbefore mentioned, the contract for furnishing the illuminating gas necessary in supplying all the street lamps within the City of Baltimore in accordance with and in strict conformity to the specifications hereinbefore referred to and made a part of this contract for the period of two (2) years, dating from June 1, 1903, at twelve o'clock noon.

Now, therefore, in consideration of the premises and the mutuality hereof, the said party of the first part and the said party of the second part, upon their respective parts do agree as follows:

First. The said party of the second part does hereby agree to furnish the gas for street lamps now in service and for the lamps that may hereafter be connected under the terms of this agreement, for a period of two years beginning June 1st, 1903, at noon, and ending June 1st, 1905, at noon, at the rate of seven dollars and twenty-five ($7.25) cents per lamp per annum in the manner and mode prescribed and set out in the specifications hereinbefore referred to, which are embodied in and made part of this contract, and to perform each and every provision stipulated in said specifications.

Second. The said party of the second part further agrees to make connections from its main pipes to such lamps as may hereafter be erected by the city along the lines of the Company's mains.

Third. The said party of the second part agrees further that it will make such changes in the services, supplying the lamps now in use or which may hereafter be put in use, as may be requested by the party of the first part.

Fourth. The party of the first part agrees to make monthly payments for the gas used, in accordance with its specifications.

Fifth. The said party of the first part agrees further to pay five dollars ($5.00) for each new lamp connected by the party of the second part; this payment to cover the cost of laying the service and making the connection from the gas main to the lamp.

Sixth The said party of the first part agrees further to pay to the party of the second part the actual cost of making any changes or alterations in its services or connections to any street lamp which is now in use or which may be hereafter erected under this contract.

Seventh. The party of the first part agrees to pay to the party of the second part the sum of one dollar ($1.00) per thousand cubic feet (1,000 cu. ft.) for all gas used in any month in excess of the quantity specified, and agrees further to give the party of the second part access at all reasonable hours to the lamps and burners, for the purpose of determining the consumption of gas.

In witness whereof, the said party of the first part has hereto set his hand, and by and with the approval of his Honor, the Mayor, the corporate seal of the Mayor and City Council of Baltimore has been affixed hereto.

And the said party of the second part has caused these presents to be duly signed by its President and attested under its corporate seal by its Secretary.

ROBERT J. McCUEN,
Superintendent of Lamps and Lighting.

THE CONSOLIDATED GAS COMPANY OF BALTIMORE CITY,
FERDINAND C. LATROBE,
President.
EDGAR T. POWERS,
Secretary.
{ SEAL. }

Test as to:
FERDINAND C. LATROBE.
ALTEN S. MILLER.

Approved:
ROBERT M. McLANE, *Mayor.*

Approved as to form and legal sufficiency:
OLIN BRYAN, *City Solicitor.*

Know all men by these presents, That we, the Consolidated Gas Company of Baltimore City, and Ferdinand C. Latrobe and Charles H. Dickey, of the City of Baltimore and State of Maryland, are held and firmly bound unto the Mayor and City Council of Baltimore, in the full and just sum of ninety thousand dollars, lawful money, to be paid to the Mayor and City Council of Baltimore or to its certain attorney, to which payment, well and truly to be made and done, we bind ourselves, our heirs, successors and assigns, executors and administrators, jointly and severally, firmly by these presents. Sealed with our seals and dated this twenty-third day of June in the year nineteen hundred and three.

Whereas, The Superintendent of Lamps and Lighting advertised for bids for the furnishing of the illuminating gas for the lighting of the streets, avenues, etc., of Baltimore City, a copy of which specifications is hereto attached and made a part hereof as fully as though the same were set out in full herein; and

Whereas, Agreeably to said advertisement, and in accordance with the specifications hereinbefore referred to, the Consolidated Gas Company of Baltimore city did, on the 16th day of June, 1903, submit its bid for the furnishing of said illuminating gas for the period of two years, beginning June 1, 1903, at noon, and ending June 1, 1905, at noon, for the sum of seven dollars and twenty-five cents per annum for every single light used, for not less than six thousand two hundred lamps, all of which is specifically set forth in the said bid, the original of which is hereto attached and made a part hereof as fully as though the same were set out herein in full; and

Whereas, Said bid was, in conformity with the provisions of the City Charter, duly accepted by the Board of Awards, as provided for in Sub-sections 14 and 15 of the City Charter, and the contract for the furnishing of said gas, as hereinbefore provided, awarded to the said Consolidated Gas Company of Baltimore City under the terms of its bid and the specfications hereinbefore referred to.

And it is hereby agreed as part hereof that this contract shall not be assigned without the written approval and consent of the Mayor and the Superintendent of Lamps and Lighting.

Now the condition of this obligation is such that if the said Consolidated Gas Company of Baltimore City shall comply in all respects with the terms of said contract, and shall defend, indemnify and save harmless the Mayor and City Council of Baltimore against any suit or suits, loss, damage or expense to which the said Mayor and City Council may be subjected by reason of any default or negligence, want of

skill, or care on the part of the said Consolidated Gas Company, its agents or employees, in or about the performance and execution of said work, then this obligation be null and void, otherwise to be and remain in full force and virtue in law.

FERDINAND C. LATROBE,
President. [SEAL.]

Signed and sealed in the presence of:

ALTEN S. MILLER, FERDINAND C. LATROBE. [SEAL.]
ALTEN S. MILLER, CHARLES H. DICKEY. [SEAL.]

Bond approved:
GEO. R. HEFFNER,
City Comptroller.

Form approved and legal sufficiency.
OLIN BRYAN,
City Solicitor.

Approved:
ROBERT M. MCLANE, *Mayor.*

INSPECTION OF ILLUMINATING GAS.

As usual, each alternating day of the year, photometric and chemical tests, to determine the candle power, quality and pressue of the illuminating gas served to the consumers by the Consolidated Gas Company, have been made in the laboratory of the Department, and from the readings of these tests a general average is established and a knowledge of existing conditions of the gas is thus obtained.

Following is a tabulated statement by months, showing the highest, lowest and general average of the candle power of gas, as well as the pressure:

Candle Power.

	Highest.	Lowest.	General Averages.
January	24.75	23.51	23.83
February	25.37	23.04	24.16
March	25.42	23.26	24.29
April	25.40	22.64	24.08
May	24.88	22.48	23.94
June	23.40	21.42	22.56
July	25.20	22.71	24.01
August	26.81	23.13	24.84
September	24.89	23 21	24.20
October	23.91	21.85	23.09
November	24.63	22.52	23.62
December	24.41	22.30	23.44

Pressure.

	Highest.	Lowest.	General Averages.
January	2.60	2.45	2.51
February	2.75	2.50	2.63
March	2.80	1.90	2.34
April	1.90	1.90	1.90
May	2.00	1.90	1.93
June	2.10	1.90	1.98
July	2.20	2.00	2.07
August	2.60	2.25	2.41
September	2.40	2.00	2.24
October	2.50	2.20	2.32
November	2.65	2.20	2.47
December	2.40	2.20	2.30

INSPECTION OF ILLUMINATING OILS.

As required by law, the Department has maintained during the year a daily patrol of the city, through its Inspectors, in a strict and thorough manner, for the purpose of collecting samples of petroleum from dealers who sell it for illuminating purposes in quantities less than a barrel.

Samples are also collected from the wagons used in delivering this fluid to retail dealers. Daily tests of all samples obtained in the manner as described above, are made at the laboratory of the Department, the total number of samples tested during the year being 6,240.

About 5 per cent. of the samples collected flashed at the legal standard required, which is one hundred and twenty degrees fahrenheit, and the balance flashed in the range of one hundred and twenty to one hundred and forty-five degrees fahrenheit, the density being from forty-eight to forty-nine degrees Beau.

INSPECTION OF GAS METERS.

During the year 28,815 gas meters were inspected, tested and sealed for the Consolidated Gas Company at a fee of 25c. each, and 145 gas meters were inspected, tested and sealed for complaining consumers of gas at a fee of $1.00 each.

The Consolidated Gas Company has raised the point that it has no legal right to pay to the city a fee of 25c. each for

reinspecting, retesting and resealing repaired or second-hand gas meters, and acting upon this point the company has refused to pay the prescribed fee since last May.

I have referred the matter to the City Solicitor, and that official has advised me to continue to inspect and test these meters pending a settlement by the courts of the points in dispute.

The law allows a meter to be sealed as correct that does not vary more than two per cent. from the standard measure (100) either fast or slow. Out of the total number of new and repaired meters which were inspected for the Consolidated Gas Company, 134 failed to pass inspection; these meters were returned to the Gas Company for re-adjustment and repairs, and were again inspected and sealed by the Department.

The number of meters tested upon complaint of the consumers during the year 1903 was 145, of which 47 were found to register fast (or incorrect), and the fee one dollar ($1.00) in each case was refunded to the applicant and said fee charged to and collected from the Consolidated Gas Company, as required by law. The remaining 98 meters were found to register correct (or that standard prescribed by law), and were replaced, by the employees of the Department, in the premises of the consumer, and the fee of one dollar ($1.00) retained, as required by law.

In the inspection of gas meters it is absolutely necessary to arrange that the temperatures of the water, air, and meters should be very close, not allowing a variance of more than two degrees to exist between them. Gas meters passing inspection, that is, registering inaccurately within two per cent. of the legal standard and under proper conditions, are sealed with the date of inspection.

A gas meter is "Fast" when it registers *more* gas than it *passes;* that is, the amount registered, from which the Gas Company makes out its bills, is greater than the actual amount consumed.

A gas meter that is "Slow" will register less gas than it passes, and thus is in favor of the consumer and against the Gas Company.

Gas meters should be set in accessible places, not more than five feet from the floor, where they can be easily read, and where, in case of a broken fixture, or an accident of any kind happening, the supply of gas can be quickly shut off.

Gas meters should not be set in damp places, where it is liable for the dampness to corrode them, and thus cause an escape of gas which may result in accident.

IMPROVEMENTS.

During the year 200 gas lamps, 50 naphtha lamps and 38 electric arc lamps have been installed in various sections of the city—a large number of these lamps having been placed in dark alleys—so that at the present time almost every dark alley in the city is thoroughly lighted.

ARTISTIC STREET SIGNS.

Street signs have been placed on unused gas lamp posts on Chase street, at every intersecting street from Greenmount avenue to Broadway, on North avenue at every intersecting street from Pennsylvania avenue to Twelfth street, Walbrook, and at the intersection of every street throughout Forest Park. These signs are very attractive, and are so arranged in the immediate vicinity of the electric lights as to be easily read at night as well as during the daytime.

Arrangements have been made to place signs of similar design on several other thoroughfares thoughout the city.

ALTERATIONS AND REPAIRS.

Complying with my instructions, the United Electric Light and Power Company has made alterations in the construction and adjustment of about two hundred electric lamps in various sections of the city. These alterations were found necessary for the improvement of the electric lighting service.

SUBWAY SERVICE.

The United Electric Light and Power Company has installed the necessary equipment for all the electric arc lamps located throughout the subway district. The posts and lamps are of a very neat and attractive design and are an improvement over the old equipment.

RECORDING GAS PRESSURE GAUGES.

Five Bristol Recording Gas Pressure Gauges have been purchased and are on hand ready to be installed. Arrangements have been made to install these gauges in as many and different sections of the city without expense to the Department.

The object to be obtained by the use of these gauges is that we will be informed as to the exact pressure of the illuminating gas in that section of the city where each of them is located.

This arrangement will be the first step towards the establishment of our proposed sub-testing stations.

STREET GAS LAMPS REPAIRED.

During the year nearly 7,000 lamp posts and lanterns throughout the city were painted, repaired, and put in first-class condition.

SPECIAL STREET ILLUMINATION.

The special illumination of the streets, public buildings, parks and squares of the city from June until October 15, 1903, was a notable feature in connection with the various conventions held here during that time.

So much favorable comment has been expressed by the press of the city, the public and the visitors with regard to the effect of this illumination as to leave nothing further to say in this connection.

I desire to thank the contractors, "The Convention Electric Company" of this city, Mr. F. G. Boyd, President, and Mr. J. Frank Eline, Secretary-Treasurer, and Messrs. Louis A.

Herstein & Co. for the efficiency of their work and for their untiring co-operation with this Department, which greatly contributed to the success of the project.

I desire also to thank the United Electric Light and Power Company for the generous contribution of electric current supplied for the benefit of those conventions and anniversary celebrations, national and local, which were not originally provided for in the appropriation.

I am quite sure those who were the direct beneficiaries, and the public also, have and will appreciate the generosity of the company in this matter.

The total appropriation for this special illumination was $25,000, and the total expense for the equipment and construction amounted to $24,832.35, leaving a balance of $167.65.

INSPECTION OF THE STREET LIGHTING SERVICE.

The District Superintendents patrol their respective districts every night for the purpose of inspecting the condition of the street lamps and to supervise the work of the contractors. Any neglect on the part of the contractors, their agents or employees, to maintain the standard of light required, is reported to the Department by the District Superintendents when the prescribed penalty is imposed in each case.

FINANCIAL STATEMENT.

Total appropriation for street lighting service for the year 1903	$336,689 11
Total expenditures	326,193 42
Balance	$10,495 69

Out of which balance provision has been made for $7,959.62 for the payment of bills for the month of December, 1903, usually paid out of the appropriation for the next year succeeding. This arrangement still leaves a net balance December 31, 1903, of $2,536.07.

Notwithstanding that we have made provisions for the installation of about 170 additional street lamps of all kinds for the year 1904, yet the total appropriations for the Department for that year is $3,141.83 less than for the year 1903.

CONCLUSION.

In conclusion, I beg to thank your Honor, most sincerely, for the honor conferred upon me, in having reappointed me to this office, and to assure you that it will always be my earnest endeavor to perform the work, in my official capacity, in such manner as will be necessary for the public welfare, and that will contribute to the success of your administration.

Respectfully submitted,

ROBERT J. McCUEN,
Superintendent of Lamps and Lighting.

LIST OF TABLES.

TABLE B.

Summary of Lamp Account.

GAS LAMPS.

Total number in service January 1, 1903	6,253	
Installed during the year	159	
Relighted during the year	25	
	6,437	
Discontinued during the year	64	
Total number in service December 31, 1903		6,373

BRIDGE (GAS) LAMPS.

Total number in service January 1, 1903	234	
Installed during the year		
Total number in service December 31, 1903		234

OTHER CLUSTER (GAS) LAMPS.

Total number in service January 1, 1903	8	
Installed during the year:		
2 clusters, 4 lamps each, Mt. Royal avenue and St. Paul street	8	
2 clusters, 4 lamps each, Mt. Royal avenue and Calvert street	8	
	16	
Total number in service December 31, 1903		24

ELECTRIC LAMPS

Total number in service January 1, 1903	1,565	
Installed during the year	38	
Total number in service December 31, 1903		1,603

NAPHTHA LAMPS.

Total number in service January 1, 1903	1,109	
Installed during the year	50	
	1,159	
Discontinued during the year	70	
Total number in service December 31, 1903		1,089
Total number of lamps of all descriptions in service December 31, 1903		9,323

TABLE A.

Exhibits the Number and Size of Gas Meters Inspected and Sealed for the Consolidated Gas Company, Including Those Rejected (134) as Being Incorrect or Otherwise Out of Order.

Date.	Size of Meters. 2 Lt.	3 Lt.	5 Lt.	10 Lt.	20 Lt.	30 Lt	45 Lt.	60 Lt.	80 Lt.	100 Lt.	150 Lt.	200 Lt.	250 Lt.	300 Lt.	Totals Monthly	Total Number Inspected.	Inspection Charges	Amounts Monthly.	Total Amount.
December, 1902	...	46	1,933	80	37	5	3	...	1	2	...	...	...	...	2,107		25c. Each.	$526 75	
January, 1903	1	48	1,685	98	34	6	12	6	...	4	3	1	...	..	1,898		" "	474 50	
February, "	...	42	1,285	66	30	7	7	3	...	1	...	2	1	...	1,444		" "	361 00	
March, "	4	67	1,753	70	32	10	9	3	...	4	3	4	1		1,960		" "	490 00	
April, "	1	46	2,338	40	22	3	5	3	...	8	2	3	...		2,471		" "	617 75	
May, "	...	63	2,558	49	11	6	6	3	3	2	1	4	...	1	2,707		" "	676 75	
June, "	5	54	2,415	51	9	3	6	2	...	3	..	...	...	...	2,548		" "	637 00	
July, "	1	11	2,002	76	29	19	8	8	.	2	..	...	...	...	2,156		" "	539 00	
August, "	7	28	2,057	127	46	18	21	2	...	8	2	3	...	...	2,319		" "	579 75	
September, "	1	37	2,597	208	82	39	33	24	2	6	2	1	..	...	3,032		" "	758 00	
October, "	3	47	2,942	131	84	27	22	6	2	2	...	.	...	...	3,266		" "	816 50	
November, "	2	61	2,646	122	39	6	17	3	...	7	1	3	..	...	2,907		" "	726 75	
Totals	25	550	26,211	1,118	455	149	149	63	8	49	14	21	2	1		28,815			$7,203 75

Size and Number of Gas Meters Inspected for Private Consumers Proving Incorrect, for which the Consolidated Gas Company was Charged the Sum of $1 Each, as Required by Law.

Date.	Size of Meters. 3 Lt.	5 Lt.	10 Lt.	30 Lt.	Totals Monthly	Total Number Inspected.	Inspection Charges	Amounts Monthly.	Total Amount.
December, 1902	1	7	1	.....	9		$1.00 Each.	$ 9 00	
January, 1903	1	11	1	.....	13		" "	13 00	
February, "	.....	7	.....	.....	7		" "	7 00	
March, "	.....	5	1	.....	6		" "	6 00	
April, "	.....	.....	.....	.....	.....		" "	.....	
May, "	.....	.....	1	.....	1		" "	1 00	
June, "	.....	.....	.....	.....	.....		" "	.....	
July, "	.....	2	.....	.....	2		" "	2 00	
August, "	.....	1	.....	.....	1		" "	1 00	
September, "	.....	1	.....	.....	1		" "	1 00	
October, "	.....	2	.....	1	3		" "	3 00	
November, "	.....	2	2	.....	4		" "	4 00	
Totals	2	38	6	1		47			47 00

Size and Number of Gas Meters Inspected for Private Consumers Proving Correct, for which the Consumer was Charged the Sum of $1 Each, as Required by Law.

Date.	Size of Meters. 3 Lt.	5 Lt.	10 Lt.	20 Lt.	45 Lt.	60 Lt.	Totals Monthly	Total Number Inspected.	Inspection Charges	Amounts Monthly.	Total Amount.
January, 1903	.....	16	3	2	...	1	22		$1.00 Each.	$22 00	
February, "	.....	7	.....	.....	.....	.....	7		" "	7 00	
March, "	1	5	.....	.....	1	.....	7		" "	7 00	
April, "	.....	4	.....	1	.....	.....	5		" "	5 00	
May, "	.....	5	.....	.....	1	.....	6		" "	6 00	
June, "	.....	1	.....	.....	.....	.....	1		" "	1 00	
July, "	.....	2	.....	.....	.....	.....	2		" "	2 00	
August, "	.....	.....	1	.....	.....	.....	1		" "	1 00	
September "	.....	6	1	.....	.....	.....	7		" "	7 00	
October "	.....	13	1	.....	.....	.....	14		" "	14 00	
November "	.....	10	1	2	.....	.....	13		" "	13 00	
December "	.....	8	4	1	.....	.....	13		" "	13 00	
Totals	1	77	11	6	2	1		98			98 00
Total								28,960			$7,348 75

Total amount charged to the Consolidated Gas Company	$7,250 75
Paid by Consolidated Gas Company up to and inclusive of April 30, 1903	2,505 00
Balance due by Consolidated Gas Company	$4,745 75

NOTE—The payment of the above balance is withheld by the Consolidated Gas Company pending a settlement by the courts of a legal question raised by the Gas Company to pay certain fees for retesting and resealing repaired or second-hand meters. (See comment under caption of "Inspection of Gas Meters.")

TABLE C.

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR SALARIES.

Original appropriation			$12,548 00
Expenditures.			
Supt. Lamps and Lighting	Robert J. McCuen..	$1,999 98	
Asst. Supt. " "	William Mohr.	1,500 00	
Inspector of Gas and Oils	Louis S. Wilson	1,060 00	
Inspector of Gas Meters	John H. Marley	954 00	
Collector of Meters and Oil	Charles Heinritz	738 00	
Extra Helper	Patrick Scanlan	204 98	
Supt. Eastern District	Benjamin T. Wells.	650 00	
Supt. Northeastern District	Geo. M. McClary	650 00	
Supt. Western District	Wm. L. Cutaiar	650 00	
Supt. Northwestern District.	Wm. H. Boone	650 00	
Supt. Southern District	John Bowers	650 00	
Supt. Northern Dist., No. 1	Adam E. Hensel	650 00	
Supt. Northern Dist., No. 2	Henry C. Kennedy.	650 00	
Inspector at Large	James A. Jacobs	855 71	
Inspector at Large	Frank F. Bush	650 00	
Total expenditure			12,512 67
Balance unexpended			$ 35 33

TABLE C.—Continued.

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR GAS LIGHTING AND MAINTENANCE.

Original appropriation		$137,208 45
Expenditures.		
Total cost for maintaining and operating 6,631 street gas lamps, which includes rental of burners, mantles, fixtures, repairs and lamplighters' salaries, as per contract prices	$88,469 93	
Total cost for gas supplied to street lamps as per contract	45,964 10	
Total cost of gas supplied to city market halls and Washington Monument	524 00	
Livery for 3 horses and wagons	780 00	
Salaries paid out incident to this account	216 00	
Glass street signs	487 24	
Ornamental sign frames	365 50	
Gas pressure gauges	187 50	
Brass meter seals	78 00	
Repairs to wagon and machinery	49 45	
Miscellaneous Items: Hardware, paints, couplings, solder, acid, etc., incident to this account	83 71	
Total expenditures		137,205 43
Balance unexpended		$ 3 02

TABLE C.—Continued.

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR ELECTRIC LIGHTS AND MAINTENANCE.

Original appropriation		$ 158,548 28
Expenditures.		
Total cost for 1,577 electric arc lamps for the year 1903, as per contract	$ 154,959 83	
Total cost for 26 electric arc lamps in parks and squares adjoining public streets	2,594 94	
Total cost for incandescent electric lights No. 6 Engine House clock	171 30	
Cost for labor for changing location of electric lamps throughout the city, as directed by the Department	495 95	
Installing electric ammeters	124 64	
Enameled street signs (electric light district)	24 00	
Charts for ammeters	39 00	
Repairing ammeters, ink, etc	100 56	
Total expenditure		158,510 22
Balance unexpended		$ 38 06

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR NAPHTHA LAMPS AND MAINTENANCE.

Original appropriation		$ 28,084 38
Expenditures.		
Total cost for maintaining and operating 1,089 naphtha (incandescent) lamps, which includes rental of burners, mantles, fixtures, repairs and salaries of lamplighters, as per contract	$25,561 29	
Salaries paid out incident to this account	110 00	
Total expenditures		$ 25,671 29
Balance unexpended		$ 2,413 09

TABLE C—Concluded.

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR INCIDENTALS.

Original appropriations		$ 300 00
Expenditures.		
Car tickets	$ 120 00	
Advertising for proposals	51 46	
Postage stamps	35 00	
Printing 1902 Report	24 78	
Typewriting proposals	15 00	
Directory, 1903	6 00	
Expressage, telegrams, etc	1 19	
Total expended		253 43
Balance unexpended		$ 46 57

THE AMOUNT OF APPROPRIATION AND THE AMOUNT OF EXPENDITURES FOR SPECIAL STREET ILLUMINATION.

Original appropriation		$ 25,000 00
Expenditures.		
Advertising for proposals	$ 164 56	
Cost—Construction of the electrical work, viz.: Court of Honor, City Hall dome, loops or festoons, outlining No. 6 Engine House, drapery effect front City Hall, outlining band stands in Patterson and Druid Hill Parks, two (2) searchlights, outlining Observatory Patterson Park, outlining Shot Tower, rental of electric waving flag, etc	19,311 17	
Cost—Building, erecting, painting and removing three (3) arches, on Baltimore and Gay streets, Baltimore and Light streets, and Baltimore and Eutaw streets	1,709 25	
Cost—Construction of electrical work on the three (3) arches on Baltimore street	2,207 85	
Cost—Current for all Conventions	1,406 20	
Repaving street openings (arches and columns)	33 32	
Total expended		$ 24,832 35
Balance unexpended		$ 167 65

TABLE D.

SUMMARY SHOWING THE AMOUNT OF APPROPRIATIONS, RECEIPTS AND EXPENDITURES FOR THE YEAR ENDING DECEMBER 31, 1903.

Account.	Amount of Appropriations.	Expenditures for the Year Ending Dec. 31, 1903.	Balances December 31, 1903.
Salaries	$ 12,548 00	$ 12,512 67	$ 35 33
Gas lighting and maintenance	137,208 45	137,205 43	3 02
Naphtha lamps and maintenance	28,084 38	25,671 29	2,413 09
Electric lights and maintenance	158,548 28	158,510 22	38 06
Incidentals	300 00	253 43	46 57
Special street illumination	25,000 00	24,832 35	167 65
	$361,689 11	$358,985 39	$2,703 72

DEPARTMENT RECEIPTS.

Total receipts—Fees for inspecting and testing gas meters	$2,646 00	
Total amount refunded—Account of incorrect and defective meters	43 00	
		$2,603 00
Total receipts from sale of old material		110 92
Total revenue		$2,713 92
Total appropriation for the year 1903		$361,689 11
Total expenditures for the year 1903		358,985 39
Balance unexpended		$2,703 72
Total receipts from inspection of gas meters, etc		2,713 92
Total amount transferred to City Register		$5,417 64

TABLE E.

SHOWS THE AMOUNT REQUIRED FOR THE YEAR ENDING DECEMBER 31, 1904.

The appropriation for salaries will cover the expense of the office and inspectors	$ 12,987 50
The appropriation for gas lighting and maintenance will cover the cost of gas for street lamps, squares, markets, bridges and Washington Monument, rental of burners, incandescent mantles, fixtures and repairs, and salaries of lamplighters, keep of horses and wagons, street signs, labor, etc	135,392 70
The appropriation for naphtha lighting and maintenance will cover the cost of gasoline and filling the fluid-burning lamps, rental of burners, mantles, fixtures, repairs and salaries of lamplighters	24,720 08
The appropriation for electric lights will cover the cost of electric arc lights for the streets, squares, markets, bridges and incandescent lights in No. 6 Engine House clock	160,147 00
The appropriation for incidentals will cover the expense for advertising, directory, postage, etc	300 00
	$ 333,547 28

ANNUAL REPORT

—OF THE—

Visitors to the City Jail

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER

1904.

OFFICERS

OF THE

BALTIMORE CITY JAIL

1903

BOARD OF VISITORS

LEIGH BONSAL — AUGUSTUS HAMPSON
H. J. McGRATH — GEORGE H. GIST
THOMAS FOLEY HISKY — WILLIAM T. CONN
J. TYLER GRAY — JOHN R. SHERWOOD
MOSES N. FRANK

PRESIDENT OF THE BOARD

LEIGH BONSAL

SECRETARY OF THE BOARD

AUGUSTUS HAMPSON

WARDEN

CHARLES A. HOOK

PHYSICIAN

GEORGE L. WILKINS

CLERK

HARRY C. MARTIN

STANDING COMMITTEES

ACCOUNTS

MOSES N. FRANK, Chairman
JOHN R. SHERWOOD — J. TYLER GRAY

SUPPLIES

THOMAS FOLEY HISKY, Chairman
LEIGH BONSAL — WILLIAM T. CONN

REPAIRS

H. J. McGRATH, Chairman
AUGUSTUS HAMPSON — GEORGE H. GIST

DISCIPLINE AND SANITATION

JOHN R. SHERWOOD, Chairman
LEIGH BONSAL — MOSES N. FRANK

COMMITTEE ON ANNEX

GEORGE H. GIST, Chairman
H. J. McGRATH — AUGUSTUS HAMPSON

BOARD'S REPORT.

To the Honorable the Mayor
and City Council of Baltimore City.

GENTLEMEN: We take pleasure in submitting, as required by law, an annual report of the Baltimore City Jail for the year ending December 31, 1903.

The present Board having been in office only a few months, cannot speak of much that has been accomplished by it, and will, therefore, allude briefly more to its purpose in the management of the Jail. While believing that all penal institutions should be economically managed, we are, nevertheless, of the opinion that more food, and in greater variety, should be given to the prisoners than has been done in the past. We also believe that in the winter time the Jail has not been properly heated. With the active co-operation of the Warden, the Board is endeavoring to remedy these matters and others of a similar nature. We have not yet carefully considered the question of the necessity of a new Jail building—a matter that has heretofore been called to your attention by our predecessors in office. At times the Jail is very much crowded, and the time cannot be far distant when the question of an enlargement of the present building, or of building a new Jail, must be determined. The workshops, and other buildings in which the prisoners are employed, are mere sheds, incapable of being heated in cold weather. They should undoubtedly be torn down and substantial buildings erected in their place.

The Board is endeavoring to arrange a plan by which the prisoners will receive a small part of the money paid for their labor. The average sentence of the prisoners at the Jail is short, and the question, therefore, is more difficult on that

account. This matter is considered an important one, because it is believed that a discharged prisoner, with a few dollars in his pocket, will be much better able to remain out of Jail than if he is entirely destitute.

At the very outset of its existence this Board determined not to give passes to people desiring to visit prisoners in the Jail, and the duty of passing upon these applications was put upon the Warden, who, it is believed, can much more systematically and justly pass upon them than the nine members of the Board, at a distance from the Jail, and without a knowledge of the circumstances surrounding the prisoner.

We have also stopped the allowance of $1,500 per year made to the Warden for hospital diet, believing that the necessary supplies for the hospital can be furnished from within the Jail at a much lower sum.

We transmit herewith the report of Mr. Charles A. Hook, the Warden, which discusses at great length a number of matters of importance relating to the Jail, and also the report of Dr. George Wilkins, the physician to the Jail.

Yours, respectfully,

LEIGH BONSAL, President.
AUGUSTUS HAMPSON, Secretary.
H. J. McGRATH,
J. TYLER GRAY,
THOS. FOLEY HISKY,
GEORGE H. GIST,
WM. T. CONN,
JOHN R. SHERWOOD,
MOSES N. FRANK.

WARDEN'S REPORT.

BALTIMORE, January 1, 1904.

To the Honorable the Board of Visitors to the City Jail.

GENTLEMEN: The administration of the business of the Jail having been executed by our predecessors for the first nine months of the year, this report for the year ending December 31, 1903, will be mostly confined to data compiled by the Clerk, Mr. Harry C. Martin.

I thought, however, that since we are seeking all the information we can get in connection with the methods and plans used in operating this Institution, it might be well to enumerate some of the most important, that we may all become familiar with the routine of business as it is carried on from day to day. I will also call attention to such needed improvements as have suggested themselves during my incumbency.

MAIN BUILDING.

The main building of the Baltimore City Jail, which was completed in the year 1859, is divided into four sections, each section containing seventy-five cells. Under the present arrangement, Section 1 is occupied by prisoners awaiting trial; Section 2 by prisoners sentenced by Court and also State witnesses; Sections 3 and 4 by prisoners committed by magistrates. The Woman's Department, known as the Annex, is detached from the main building, and is in charge of three matrons, two by day and one by night. It is called Section 5. Section 6, or Boys' Department, is located in the upper rooms of the main building. This section contains all boys from nine years to fifteen years. There is a school-room, fairly well equipped with blackboards, desks, books, slates,

etc. They are required to be in school from 9.30 to 11 A.M., and from 2 to 3 P.M. In the interim they do all the work on their section, such as scrubbing, sweeping, etc. I have ordered one-half hour outing in the fresh air daily for these boys.

There are 300 cells, 8x10½x9 feet, in the main building. One cell in each section is used as an office for the clerk of the section. There is also one cell set apart for a receiving room for prisoners; one cell for a clothes-room and pantry, and one for odds and ends, leaving 71 cells to each station, or 284 in all.

The method used in handling a prisoner on his arrival at the Jail is as follows: After his commitment is examined by the officer, and found correct, he is turned over to the section officer, who takes him to the receiving room, where he is stripped and searched, and sent to the bath. If his clothes show evidence of vermin they are placed in a steam box and remain there twenty-four hours, after which they are returned to the prisoner, who must wash same. He is then taken to the section office immediately after his bath, where a minute descriptive record is taken of his physique, etc. He is then assigned to his room. This method applies to every prisoner, male and female, received at this Institution.

As before stated, we have available 284 cells in the main building, in which it has been necessary to confine as many as 675 prisoners (male). To keep the colored prisoners separate from the whites, it has been necessary at times to confine as many as five colored prisoners in one cell, and three, and sometimes four, white prisoners in a single cell.

ANNEX, OR SECTION 5.

This building contains ninety-six cells, one double cell being used as a hospital, one double cell for sewing-room, one cell for store-room and one for pantry, leaving ninety-two, eight of which are double, making ninety-six single cells

available for the prisoners, in which it has been necessary in the past to confine as many as 189 female prisoners, black and white, in every condition imaginable. In an effort to classify the color and condition, it has been found necessary at times to place as many as three in a single cell, that is, two in a single bed, and one on the floor. We have some material on hand, which, when the weather moderates, we will work up into swinging beds, and thereby make the inmates more comfortable.

DIETS.

After due consideration we have made some changes in the daily diets for all the inmates. Meat is distributed as follows: Sunday—The meat is chopped up in the soup, and given to all as soup. The actively-employed men, about twenty-five in number, are each given a piece of meat on that day. Sections 2 and 3 get sliced meat on Monday, Tuesday and Friday. Sections 3 and 4 get sliced meat on Monday and Thursday. This rule is adhered to except when the number of prisoners is so increased that the supply of meat will not go around. This has happened but once since the new bill of fare has been in use, when Section 1 was deprived of meat. All the men at work on the outside, such as firemen, bakers, carpenters, etc., get one piece of meat every day. This has been the rule in the past and has not been changed, but with some changes, which I will hereafter suggest, in the way of feeding the men, it may be advisable to treat all men that work alike. All the inmates get meat daily chopped up in the soup.

The women get meat three times a week—Tuesdays, Wednesdays and Saturdays. It is claimed that they have to do, and do much more work than the men. They make all the clothing, do all repairing, and all the washing for the male and female departments.

SHOPS.

Wicker Shop—In this shop there are employed one hundred men, working at various benches, some making barrels, others various kinds of boxes. A task has been set for each man, which some complete in half of the time allowed; others do not seem able to finish half of their task. I wish to say that I am giving this subject special attention, trying by reason and just treatment to arouse on the part of each man the right spirit, and whilst this is making a great deal of work for the Warden he feels, and has reason to believe, that his efforts are slowly bringing good results.

Broom Shop—In this shop there are also employed one hundred men, working at the various tasks allotted to them. Here, as in the Wicker Shop, each man has a task to perform. and there have been questions arising in the way of complaints made by the contractor's foreman of the men idling, talking, etc., consequently failing to do a fair day's work. As in the Wicker Shop, I have been trying to instil into the minds of the men, as they have been brought before me, the fact that by their own personal efforts to comply with the rules, and thereby gain the respect of the officers in charge, they will be the real beneficiaries in the end.

The Broom Shop was built last summer. It is a light structure, covered with corrugated iron, with a scant frame barely sufficient upon which to nail the iron sheets. During the cold weather we find it difficult to get a temperature in the morning in which the men can work and be comfortable. To remedy this we are lining the shop with tarred paper, the cost of which is to be equally shared by both parties to the contract. I am of the opinion that the cost will soon be more than paid by a saving in the cost of fuel.

IMPROVEMENTS.

Since the first of last month we have made the following improvements: Placed in the kitchen two boilers of sixty-gallon capacity each. This will enable us to change the diet of the inmates by giving them at times one solid

vegetable, or a plate of cereal. We have introduced in the operating room of the hospital hot-water boiler and gas-heater, connecting the gas pipes from the main on Truxton street. Also repaired foot valves. Placed one closet in the Annex. Two cast-iron enameled troughs, with six seats and two automatic flush tanks, in the Wicker Shop.

At the Warden's residence the papering in the hall and the entire second floor has been renewed, all the woodwork on the second floor painted with two coats, the electrical fixtures completely overhauled and a modern system of wiring introduced, with new droplights in all of the bedrooms. The servant's room was papered with sanitary paper and the bathtub coated with enameled paint; one new carpet for the halls on the first and second story and two rolls of matting for bedrooms; one new basin, new flush-tank and seat and repair to soil pipes in bathroom.

In Warden's office one new chandelier and clock; in toilet room one new washstand, flushtank and droplight with two burners; all electric wiring renewed.

Before the electrical repairs were introduced it was ascertained from an Inspector from the office of the Building Inspector that the method in use was dangerous and contrary to law. Proposals were invited from different firms for the work as specified, the work having been awarded to the lowest responsible bidder, vouchers for each class of work being on file with the Clerk to the Board.

IMPROVEMENTS RECOMMENDED.

At this time, and in the past, all the condensed steam returning to the hog-pump is pumped into the sewer and wasted; this ought not to be. It should be pumped direct to the boilers. I have been investigating this matter, and I am advised by our day engineer that the steam cylinder in the pump is not large enough to overcome the steam pressure in the boilers. If a new pump, with cylinders properly proportioned, will do the work, I think we should invest in one at

once. The utilizing of this hot water instead of cold water fresh from the water pipes will be the means of reducing the quantity of fuel to a minimum under our present system. From what I have seen of the entire system of heating the Jail and other buildings, I think it would be well to have an expert examine and report upon same.

I understand that at various times the attention of preceding Boards has been called to the need of some method by which a prisoner could be prevented from jumping over the handrail of upper tiers with a view to suicide, which I am told has been done. Anyone walking over the upper tiers would be impressed with the necessity of some device which would prevent such an occurrence; I, therefore, endorse the consideration of this needed improvement.

The plan now in vogue for feeding the inmates is as follows: Tables extend on the ground floor of each section in front of the lower tier of cells. All the food has to be carried from the kitchen, up the back, side steps, through the main hall into each section, and then down a flight of steps and distributed to the men. As per present arrangement the men must sit opposite each other. I would recommend the following change: Convert the room under the main hall into a dining-room by cutting four doorways, one from each section on the lower floor direct to the dining-room. A plan has been worked out which shows that we can seat four hundred men. This will necessitate two shifts, but can be arranged without interfering with discipline, and we believe will be of general advantage in many ways. By this change we shorten the distance from the kitchen to the dining-room, do away with the necessity of ascending and descending stairways, and consequently prevent the spilling of soup along the route, which it is hard to avoid under the present arrangement. The absence of eatables from the sections will remove the attraction of vermin, and will confine the fumes of the soup to one section of the building. The men of each section can be classified at the tables the same as under the present method.

In connection with this change it will be necessary to remove the steward's quarters. We can accommodate him in a room now used as a harness room. This change will enable us to reduce the number of attendants, consequently giving us more men for the shops, which we may need to supply our contracts.

Opposite, or west of the driveway, there is an old brick building, a part of which is occupied by Mr. Kuhn, the contractor. The balance is used for various purposes, such as kitchen, stable, engine and boiler-room, tin shop, etc. This old building has seen its best days. The wood work is showing signs of decay; some of the window sills have settled and the floors and joists have shrunk and rotted, and are hiding places for vermin. We are now having an iron support column erected in place of one rotted away so completely that I feel we have been fortunate in escaping serious collapse. This old brick building, paralleling the main building on the east side, obstructs the sunlight to such an extent that only for a period of three hours does the east side of the main building get any sunlight at all. In view of this condition I would recommend for the consideration of your honorable body the removal of all the old brick building between the main building and the driveway, leaving an areaway for light and air. I would recommend further that all the outbuildings necessary for the various purposes be confined in one substantial structure, to be built on the east side of the driveway. Such a building to be attached to the present Women's Building, thus extending needed accommodations for that department. Such a building could be designed in departments, planned so that our long-term prisoners could be worked at an industry which would redound to their benefit at the expiration of their sentence.

RELIGIOUS SERVICES.

As is well known the religious services of this Institution have been and are still under the direction of the Prisoners' Aid Association. Services have been held every Sunday afternoon, except December 13th and 20th, in the male department, and December 27th in the female department. I might mention that there are a limited supply of hymn books for the use of the prisoners.

Since the writing of this report the Building Inspector has examined and approved the plan suggesting the use of the basement as a dining-room, and has consented to do the work necessary to make the change. He has advised me that all the electrical wiring in the main building is contrary to the laws governing the same, of which he will thoroughly investigate and report later.

Most respectfully submitted,

CHAS. A. HOOK, *Warden.*

EXHIBITS.

EXHIBIT A.

A Summary of the Appropriation Account for the Twelve Months Ending December 31, 1903. Also a Summary of the Revenues of the Jail and Their Disposition, and a Comparative Statement for the Years 1903, 1902, 1901, 1900, Showing the Daily and Yearly Per Capita Cost of Maintenance of Prisoners.

APPROPRIATIONS.

Appropriations—		*Expenditures—*	
Salaries	$32,080 00	Salaries	$31,887 69
Expense	22,000 00	*Expense—*	
		General Subsistence	14,522 06
		Heat, Light	1,316 23
		Machinery and Supplies	965 47
		Clothing, etc	1,188 21
		Sanitary	1,291 17
		Hospital Drugs	733 35
		Hospital Subsistence	1,353 69
		Incidental Expense	621 66
		Balance Salaries Unexpended	192 31
		Balance Expense Unexpended	8 16
	$54,080 00		$54,080 00

EXHIBIT A—Continued.

REVENUES.

Amount paid to City Comptroller..		$7,678 10	Outstanding Accounts, January 1, 1903		$ 74 50
Outstanding Accounts		1,256 00	Earnings during year		8,859 60
Wm. T. Kuhns..	$ 442 00		Wm. T. Kuhns	$5,253 00	
Md. Broom Co	572 00		U. S. Marshal	1,219 80	
U. S. Marshal	236 50		Md. Broom Co	2,196 58	
Baltimore County	5 50		Counties for Board	60 50	
	$1,256 00		Sale Junk	129 72	
				$8,859 60	
		$8,934 10			$8,934 10

EXHIBIT A—Concluded.

	1903.		1902.		1901.		1900.	
	Yearly.	Daily.	Yearly.	Daily.	Yearly.	Daily	Yearly.	Daily.
Salaries of officers (per capita cost maintenance)	$49.90	.1367	$46.19	.1268	$49.201	.1348	$50.691	.1389
Subsistence (per capita cost maintenance)	22 72	.0623	19.35	.0530	19.309	.0528	18.803	.0515
Heat and light (per capita cost maintenance)	2.06	.0056	1.38	.0037	2.645	.0072	5 170	.0141
Machinery and repairs (per capita cost maintenance)	1.51	.0041	.19	.0005	.609	.0016	1 566	0043
Clothing, dry goods and shoes (per capita cost maintenance)	1.86	.0051	1.53	.0042	2 451	.0067	2.762	.0076
Sanitary (per capita cost maintenance)	2.02	.0054	.94	.0026	2.477	.0067	3.350	.0091
Special diet for sick (per capita cost maintenance)	2.12	.0058	2.16	.0060	2.436	.0064	2.455	.0067
Incidental expense (per capita cost maintenance)	.98	.0027	.49	.0013	1.529	.0041	980	.0026
Hospital and drugs (per capita cost maintenance)	1.15	.0031	.87	.0023	1.546	.0042	1 193	.0033
Special sanitary improvements	.....	.....	1.26	.0034	.....	.....	.....	.....
Totals	$84.32	.2308	$74.36	.2038	$82.103	.2245	$86.970	.2381

EXHIBIT B.

A Comparative Table of the Monthly and Yearly Averages of Prisoners for 1898, 1899, 1900, 1901, 1902 and 1903, the Highest and Lowest Number During Each of These Years.

	1903	1902	1901	1900	1899	1898
January	607	654	656	639	641	637
February	570	594	618	546	559	751
March	582	639	624	520	594	683
April	627	640	604	532	600	674
May	609	651	600	558	628	690
June	593	679	607	595	734	673
July	618	723	640	575	774	677
August	689	767	720	644	722	653
September	728	816	737	751	686	678
October	730	796	686	641	561	609
November	658	719	602	654	596	563
December	654	629	592	630	672	598
Yearly average	639	692	642	616	647	649
Highest number in Jail	831	857	779	805	827	738
Lowest number in Jail	533	565	536	481	522	526

EXHIBIT C.

BALTIMORE CITY JAIL.

ANNUAL REPORT OF ANNEX, 1903.

On Hand 1903.	Made.	On Hand.	Disbursed.	1904.
Shirts	308	285	512	81
Overalls	298	247	436	109
Jumpers	3	6	9	.....
Sheets	236	62	174	124
Pillow-Cases	180	188	325	43
P. Ticks	67	.....	27	40
B. Ticks	31	.....	10	21
T. Covers	22	11	21	12
Gowns	13	12	16	9
Aprons	.....	15	15	.....
Towels	149	355	412	92
Dresses	31	64	50	45
Miscellaneous	.....	21	21	.....
Total	1,338	1,266	2,028	576

Washing and Repairing.

	Washed.	Repaired.
Overalls	22,258	10,379
Shirts	22,633	8,202
Sheets	31,283	2,338
P. Cases	30,562	2,343
B. Covers	29,908	2,735
Dresses	5,094	1,767
Gowns	382	30
B. Ticks	721	.....
P. Ticks	45	.....
Blankets	1,007	69
Towels	7,871	.....
Aprons	742	30
Spreads	469	15
Miscellaneous	4,730	107
Total	157,705	28,014

PHYSICIAN'S REPORT.

To the Honorable the Board of Visitors to the City Jail.

GENTLEMEN: I have the honor to submit the following report for the year ending December 31, 1903. A tabulated statement and summary of the work of this department is herewith submitted:

The total number of cases treated during the year was 7,385, and the total number of prescriptions was 8,458.

There were six deaths during the year, or a death rate of .81 per 1,000 cases treated. Three of the prisoners who died during the year were dangerously ill when they were admitted into the Jail, and died within a short period after their admission. This experience is repeated every year and the Jail is annually credited with a certain number of deaths that ought not to be placed on its mortality lists. Deaths resulting from diseases originating in the Jail serve best as a basis for showing the influence of prison life on the health of the inmates.

In this connection I wish to call attention to the fact that during the year 48 insane persons were admitted into the Jail. Some of them were raving maniacs, and with many others the insanity was so pronounced that it could be detected by the most ordinary observer. I do not for one moment presume to express an opinion on a legal question, but it does occur to me there is a radical defect in a jurisprudence that permits the arraignment, trial and sentence of persons utterly devoid of reason or intelligence, and some remedy ought to be found for such a state of things.

During the year many cases of "Drug Habit" came under our observation, especially cases of "Cocaine Habit." In the month of July there were 20 female prisoners addicted to this habit, 19 being colored. Whilst under the stimulating effects of this drug, as well as in the stage of depression which follows its use, its victims are quarrelsome and beligerent, and are prone to break the peace. In this way the question becomes a State question, and calls for such legislation as will tend to regulate the sale of dangerous drugs.

The question of diet, heating, ventilation and cleanliness have an important bearing upon the hygiene and health of the prisoners, and every advance and improvement on these lines will result in some substantial good.

Thanking the Board of Visitors and Warden for their uniform kindness, and the other officers for their assistance and constant co-operation, I am

Very respectfully,

GEO. L. WILKINS, *Physician.*

SUMMARY OF THE MEDICAL DEPARTMENT.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Abscess	5	5	5	5	12	9	6	5	9	8	8	6	83
Abrasions	4	2	2	2	3	3	...		...	...	...	1	17
Appendicitis	1	1		...	...	...	...	..	...	...	...	...	2
Anemia	1	...		2	...	...	...	...	...		...	...	3
Alcoholism	8	6	6	11	7	8	9	4	3	6	7	3	78
Asthma	...	...	...	4	...	...	...	1	4	4	...	1	14
Aortic Stenosis	...	...	2	...	...	1	...	2	1	1	1	1	9
Acne	1	1	...	...	2	2	...	1	2	2	...	...	11
Bronchitis and Cough	162	94	99	123	73	39	48	67	76	106	131	106	1124
Burn	1	5	1	...	...	...	4	...		..	3	1	15
Bite—Human	.....	1	1	...	5	2	1	4	2	...	1	1	18
Cephalgia	11	20	17	8	10	11	14	15	7	8	10	5	136
Conjunctivitis	6	2	2	9	5	3	6	7	6	7	6	6	65
Chancroid	6	4	3		..	2	2	4	...	9	5	4	39
Contusions	11	8	7	2	9	10	10	7	4	...	...	14	82
Coryza	30	26	30	19	12	6	7	16	17	22	15	7	207
Catarrh—Nasal	1	1	1	2	2	...	3	1	1	..	...	1	13
Constipation	46	46	45	46	56	37	41	83	69	53	25	62	666
Colic—Intestinal	8	4	6	3	3	2	2	12	...	3	7	...	50
Cocaine Habit	2	3	...	2	...	...	1	...	1	1	1	2	13
Cystitis	...	...	1	2		...	...		...	...	...	...	3
Cornitis	...	...	...	3	2	...	1	...	1	2	...	...	9
Circumcision	...	...	...		..	..	1	...	...	...	...	...	1
Carbuncle	...	...		...	...	...	1	...		...	...	...	1
Capacity of Cornea	...	1	...	1	...	...	...	...	...	...	...	...	2
Delirium Tremens	9	14	16	12	12	11	9	14	9	15	10	12	143
Debility—General	5	5	4	...	8	8	8	5	2	12	6	1	64
Diarrhœa	18	12	10	9	10	31	64	41	18	17	11	16	257
Dysentery	1		2	3	..	4	10	6	2	3	4	3	38
Diabetes Insipidus	...	...	2	2	2	2	1	..	...	...	...	...	9
Dislocations	...	...	...	1	...	...	...	1	...	1	...	...	3
Epilepsy	2	3	...	4	8	3	3	...	2	...	5	4	34
Erysipelas	1	2	...	...	1	2	1	...	2	...	...	1	10
Eczema	7	5	4	7	6	4	10	15	4	4	11	7	84
Emphysema	.	...	.	...	...	...	2	..	...	...	1	...	3
Examinations	...	...	...	...	...	...	...	5	...	.	...	...	5
Fever—Remittent	...	5	7	9	11	7	5	8	7	14	8	6	87
Fever—Intermittent	4	6	3	6	6	5	6	6	5	8	4	5	64
Frost Bite	8	1	1	...	...	...	...	...	...	...	...	2	12
Fracture	1	...	1	...	...	1	...	...	...	..	...	...	3
Fistula in Ano	...	1	...	...	1	...	...	...	...	...	...	...	2

SUMMARY OF THE MEDICAL DEPARTMENT—Continued.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Gonorrhœa	10	7	6	8	10	6	9	16	14	13	9	16	124
Hæmorrhoids	8	9	3	4	3	4	6	3	3	3	4	7	57
Hemorrhage	1	...	...	1	...	1	...	2	...	...	...	...	5
Heart Palpitation	2	2	2	2	...	2	3	2	2	4	3	2	26
Hysteria	2	1	...	..	...	...	3	...	...	4	...	...	10
Hydrocele		1	...	...	...	...	...	...	...	...	...	...	1
Herpes Cincin	..	2		2	...	...	1	...	2	2	...	2	9
Herpes Simplex	...	...	..	...	2	...	...	...	...	2	...	...	4
Hernia	...	...	...	...	...	2	1	...	...	5	3	2	13
Indigestion	20	11	11	21	19	6	14	19	18	25	15	15	194
Insomnia	1	1	1	2	4	4	7	...	4	1	1	9	35
Irritable Bladder	6	8	5	9	5	6	3	13	3	10	13	7	88
Influenza	1	1	.	..	...	...	...	.	...	...	...	...	2
Insanity	4	4	4	3	4	3	4	5	4	9	4	..	48
Infected Hand	1	3	...	...	...	...	...	...	...	...	..	...	4
Infected Eye	1	1	...	...	...	...	...	...	...	...	...	...	2
Jaundice	...	...	...	...	...	...	...	...	...	1	1	...	2
Laryngitis	5	4	3	3	2	2	...	3	..	4	4	3	33
Lumbago	8	8	14	8	11	22	18	13	18	11	15	19	165
Lupus	1	...	...	...	...	..	...	...	...	...	...	...	1
Locomotor Ataxia	...	1	...	1	..	...	...	1	...	...	...	...	3
Leuchorrhœa	...	...	...	2	...	...	...	...	...	...	..	1	3
Menorrhagia	...	1	1	2	1	3	2	1	3	1	1	2	18
Myalgia	60	44	66	44	40	56	32	50	51	40	40	70	593
Morph. Habit	3	...	...	2	1	...	1	4	2	...	1	1	15
Mitral Stenosis	...	...	...		...	...	...	...	..	1	...	...	1
Neuralgia	4	6	11	3	2	3	5	4	1	13	4	6	62
Neurasthenia	3	7	4	5	3	4	4	3	2	3	3	...	41
Nephritis	...	...	...	...	...	...	1	1	3	...	...	...	5
Necrosis	...	...	...	..	...	..	...	2	...	...	...	...	2
Otitis	8	5	5	6	4	3	4	4	3	2	1	3	48
Orchitis	...	...	1	...	...	...	2	2	...	2	1	...	8
Ovaritis	1	...	...	1	1	1	...	..	...	...	...	...	4
Odontalgia	...	...	...	...	...	...	...	...	...	...	1	...	1
Paralysis	1	...	...	...	3	2	...	1	...	...	...	...	7
Pediculosis Pubis	1	...	1	...	...	...	3	...	5	...	...	...	10
Periostitis	5	2	5	2	2	3	...	...	...	4	...	5	28
Pharyngitis	43	32	36	28	19	15	15	22	23	53	35	50	371

SUMMARY OF THE MEDICAL DEPARTMENT—Continued.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Pneumonia	2	...	...	1	1	...	...	...	...	...	1	2	7
Pleurodymia	...	1	...	..	...	11	8	7	3	3	2	4	39
Pleuro-Pneumonia	...	2	...	2	...	...	...	...	...	...	1	...	5
Pleurisy	...	1	...		...	1	...	...	...	...	...	...	2
Pregnancy	...	...	..	1	...	...	...	1	2	...	1	1	6
Premature Labor	...	...	...	...	...	...	...	1	...	...	1	...	2
Rheumatism	32	22	32	35	23	24	28	23	34	23	24	47	347
Rupture	...	...	..	...	..	1	...	...	...	...	1	1	3
Scabies	1	...	...	1	3	...	...	...	3	3	2	4	17
Sweats—Night	1	...	...	...	1	...	...	...	...	...	...	...	2
Sprain	1	5	9	11	3	3	11	8	5	5	5	9	75
Syphilis—Primary	3	3	8	8	11	18	5	5	13	6	7	11	98
Syphilis—Secondary	16	7	16	16	15	14	8	5	7	...	10	8	122
Stomatitis	13	13	16	11	4	6	3	11	6	10	4	11	108
Stye	...	...	...	1	...		...	2	...	..	2	...	5
Stricture	...	...	...	...	...	...	...	1	...	...	...	...	1
Scanty Urine	...	...	...	..	...	...	...	1	2	...	...	..	3
Tuberculosis, Pulm	7	7	6	7	5	4	5	7	6	12	11	4	81
Tuberculosis, Gland	4	3	2	5	7	5	6	2	4	5	2	3	48
Tonsilitis	31	11	9	18	14	3	11	8	12	14	20	28	179
Tonsilitis Follicula	11	12	6	3	8	...	3	2	4	9	8	16	82
Teeth Extracted	11	9	12	9	9	4	9	13	14	18	4	7	119
Tumor	1	...	...	...	...			...	...	...	...	...	1
Typhoid Fever	...	...	2	1	3	5	3	...	...	...	...	...	14
Ulcer—Varicose	...	3	...	2	4	1	6	1	2	2	2	3	26
Ulcer—Gastric	...	...	...	...	...	1	1	...	...	...	...	...	2
Ulcer of Cornea	..	...	...	...	...	...	...	...	...	2	2	2	6
Urticaria	2	8	4	8	3	3	10	8	4	8	4	4	66
Varicose Veins	1	...	...	...	...	...	...	...	...	...	...	...	1
Varicocele	1	...	..	...	...	...	...	..	...	...	1	...	2
Vertigo	...	11	29	18	12	10	23	20	21	20	24	18	229
Venereal Warts	...	...	...	...	2	2	...	...	...	2	...	..	6
Wounds, Punct	1	2	2	...	1	...	...	1	2	2	...	2	13
Wounds, Contused	2	3	2	5	1	4	...	...	4	8	4	...	33
Wounds, Incised	2	3	3	...	...	1	..	...	...	..	...	...	9
Wounds, Infected	4	2	2	7	...	3	1	1	5	3	4	4	36
Wounds, Gunshot	1	3	...	...	1	2	1	1	...	1	...	1	11
Wounds, Lacerated	12	13	10	20	14	10	14	11	11	10	14	15	154
Totals	751	606	625	638	555	507	616	636	569	685	596	602	7385

SUPERVISORS OF CITY CHARITIES.

JEFFREY R. BRACKETT, *President.*
MRS. JOHN J. ABEL,
JOHN BLACK,
*CHARLES D. FENHAGEN,
JOHN M. GLENN,
ELISHA H. PERKINS,
HENRY STEFFENS,
MACTIER WARFIELD, M.D.,
**CHARLES WEBER, JR.,
JAMES R. WHEELER.

*Resigned, April, 1903.
**Appointed, May, 1903.

The office of the Supervisors is on the first floor of the City Hall, by the Lexington street entrance.

HOURS: On week days, 9 A.M. to 2 P.M.; on Saturdays, to 12 M.

REPORT.

BALTIMORE, December 31st, 1903.

To the Honorable the Mayor and City Council.

GENTLEMEN:—The Supervisors of City Charities submit to you, as required by the City Charter, their fourth annual report "upon all departments of their work."

The personnel of the Board is unchanged, those members whose terms expired having been reappointed, except that Mr. Charles Weber, Jr., was appointed to take the place of Mr. Charles D. Fenhagen, who resigned because of change of residence to Baltimore county. Mr. Weber has long been interested in good care of the dependent and was for several years a manager of Springfield State Hospital for the Insane.

This report covers the fourth year of service of the first Board of Supervisors under the new City Charter. Such a period of service suggests the propriety of a brief retrospect. In Baltimore, previous to the adoption of the new charter, there was no system of public charity, no adequate supervision of expenditures by the city for the purpose, and no reasonable guarantee to the public that proper results followed the expenditures in the selection and treatment of the beneficiaries of public aid. The Trustees of the Poor, beside their care of the almshouse, had made a good beginning of a system by their arrangement for oversight of hospital patients and for transportation of the needy. But the report of a special commission, appointed by Mayor Hooper, brought out in 1897 the absolute necessity of a system of public charity, with responsible public agents, as a part of

good city government as well as of good work in charity. Such a system was, very largely, called for by the new charter, adopted in 1898.

The Supervisors, taking office early in 1900, found on the one hand the charter to govern their work, and on the other hand the results of long entrenched custom. They have tried to bring about the system called for with no more disturbance of custom than was unavoidable. The underlying principles of the charter are that city agents, giving their thought and time to this particular work, decide what particular individuals are proper subjects of public aid because of need, and how those persons can best be cared for. If institutions are to be used other than those belonging to the city, those institutions are chosen which are needed by the city agents, and which are believed by them to be best fitted to give the desired care. In carrying out these principles the Supervisors have adopted the methods of regarding, as far as is possible, the preservation of families, the duties of near kinship and the possibilities of private charity through churches, societies, neighbors and other kindly individuals. No sharp lines can be drawn in any community between the work of public aid and of private charity, but a very desirable direction can be followed—that the community officially does what private charity or agencies for medical education do not do, especially if they cannot do it as well, and that the public money be spent with special regard to doing well whatever the public agents undertake to do, for which they are directly responsible.

The Supervisors believe that these principles and methods are thoroughly justified by a few plain figures and a few facts which citizens who are interested may easily obtain. The total average expenditure through this sub-department annually for the past three years is very little more than the annual average expenditure in 1895, 1896 and 1897, despite the growth of the city. The money spent for maintenance of destitute or neglected children is now less than it was, that

for city patients in private hospitals is less, that for dispensary service is much less than it was when parcelled out among a lot of private agencies. On the other hand, much more money is spent for improved care at Bay View, the city's own infirmary and hospital, and the money for care of insane patients at hospitals has doubled, amounting this past year to $127,000.00, the increase being chiefly at Springfield, the new State hospital.

Such figures may mean little, for saving in money is often not economy. But the Supervisors believe that the money thus spent is bringing better results than formerly. A comparison of the expenditures for public charity in Baltimore with those for similar purposes in other large seaport cities shows that our expenditures are moderate.

During the past year the work of the Supervisors has continued along three lines—for a completer system in our public aid; for improved methods and facilities for the care of needy individuals who are accepted as city charges, and for careful attention, in accepting individuals, to ascertain their needs and how best to relieve them. In this last-named field of the work there is little to show to the public gaze. The records are not open except to those persons who are properly interested in particular individuals. To deal rightly with a single case of need may mean not only many visits but much time and thought which cannot be tabulated. Especially do the officials feel repaid for such efforts when, as not infrequently happens, the result is that some needy one is taken by relatives, or by some private charity which exists for the purpose of sheltering just such a person. A constant aim has been to co-operate with private charity, which is manifested so fully in such a large community as Baltimore. One excellent endowed institution, for example, has this year undertaken the entire care of several children who would otherwise have become city charges.

In working for a more complete system of public aid, we still find a great deal of ignorance or lack of understanding of the letter and spirit of the new City Charter. There are still inquiries from private charities as to how to get "city aid." To these has been said what was said to several private agencies with which the city has ceased to contract, that the duty of the Supervisors is not directly to aid private institutions because of good work done. If a good institution gets needed aid while the city does its direct duty, because that institution is needed for the care of persons accepted as city charges, so much the better; but to use an institution which is not really needed for the care of such persons is, obviously, a marked injustice to all other private agencies doing good work and not used by the city. To try to follow the right principle is the only fair way. To do otherwise would be, also, to return to the former lack of system, and would lead to waste of public money. For these reasons, the use of several agencies, found by experience not to be needed, has been discontinued.

The most noteworthy steps during the year for improved methods and facilities have been as follows:

This office has joined with a hundred or more offices throughout the land in adopting the use of a code for the transmission of information about applicants for transportation to their homes.

The number of destitute or neglected children who have been placed out in carefully selected families, without cost to the city except for visitation of the homes, has been doubled, being now 115. This has been done chiefly in co-operation with the institutions, some of whom previously gave little or no attention to good placing-out. It has been of help to the children and to the institutions. A beginning has been made of boarding infants from the larger institutions with foster-mothers, with the hope of reducing infant mortality by that most natural method of care.

The City Medical Agency for the South Baltimore District, which has just completed its first year of work, is deemed a great success. The physicians, a man and a woman, carefully selected for their experience and character, are city officials, directly responsible to the Supervisors. They have paid more visits in the homes of the sick poor than the number of visits paid them at the office of the agency. Stress has been laid on careful diagnosis and thorough treatment. The quantity of drugs which had to be given has been surprisingly small. Women and children have the services of a female physician if desired. Patients have been sent to such well-known institutions as, for instance, the Johns Hopkins Dispensary or Hospital, which provide service at no cost to the public, whenever such care has been desirable and the patients could go. Another such agency is now being established in Northwest Baltimore. The aim is gradually to cover the whole city with this excellent service, such as good family physicians give, for the care of the needy sick who may not be cared for by medical schools or charitable agencies.

For removing to needed care insane persons who are without near friends, new arrangements have been made. Several well-qualified physicians have been designated as examiners in lunacy, if their services are needed for such exceptional cases. Also a female attendant will be sent, if needed, for the removal of an insane female.

The addition to the Bay View Asylum property of over one hundred and forty acres, of which possession was recently taken, gives the city the opportunity for many years to come of increasing its own facilities in new buildings for the care of the sick and infirm. Thus a better classification and differentiation can be brought about among the inmates of the asylum. More work may be provided for the able-bodied insane at Bay View, so long as any insane must remain there. An excellent house bought with the farm is now being prepared for use as a hospital for female consumptives, and a

contract has just been signed for the erection of a building which will hold some seventy male consumptive patients. The addition of tents and pavilions, at small cost, will allow considerable increase in the number of consumptives who can be cared for on the high and extensive grounds of the new farm. The main building at Bay View is being used more and more for the aged and infirm who are destitute and otherwise not provided for. The number of readmissions during the year is small, showing care both at the city office and at Bay View to use the infirmary department for its normal population. The hospital department is increasing in usefulness. The Supervisors are working steadily for improved nursing in the hospital and to keep out of Bay View such persons as belong in penal institutions and as should not be thrown into association with the proper subjects of a city infirmary and hospital. While they stand squarely for the sound public policy of the care by the State of Maryland of all its dependent insane, they feel that so long as insane persons have to be cared for directly by the city, the care should be made as good as possible.

The charter calls for a report on the work of those institutions with which the city has contracts for the care of any poor persons. All of the institutions used, as mentioned in this report, have been regularly visited. Some of them have been much improved in the last few years as the result of friendly co-operation between them and the Supervisors. During this year the city Inspector of Buildings has been asked to examine every institution located in the city, with reference to the provisions of fire escapes, and to report his findings directly to the institutions. In so doing, the Supervisors feel that in that respect they have fulfilled their duties of supervision.

One constant aim in all the work has been to keep in touch, as far as possible, with methods used and good results accomplished elsewhere, for the improvement of our own work.

The President and Secretary of the Board were sent as delegates to the National Conference of Charities and Correction held at Atlanta last May. The Secretary, the Superintenden of Bay View Asylum and the Admit Clerk to the asylum were sent recently to an important conference in Philadelphia on questions of dealing with tramps and homeless persons. The Superintendent of Bay View and one of the Supervisors has visited New York to examine into the dietary for consumptives, and the methods of treatment of them in tents and pavilions.

The special classes of the destitute for whose care provision has so far been made by the city are:

Homeless adults needing temporary care only.

Non-residents likely to continue charges on charity or the city, who may properly be sent elsewhere.

Destitute adults, needing continuous care, who may properly be sent to the almshouse.

Ill or injured persons needing hospital or dispensary treatment, who may properly be treated as city patients in certain designated institutions, or may be sent to the almshouse hospital.

Insane.

Destitute and neglected children.

Following are detailed statements of what has been done for these classes of destitute this year, partly as given by the officials directly in charge. To the interest and zeal of those officials the Supervisors and the city are indebted for much of the good work that has been done.

TEMPORARY CARE OF THE HOMELESS.

Homeless women, who have always been very few in number, are cared for at the almshouse, unless they are cared for by the police matrons at the stations, or by the Charity Organization Society or other private charity. The number of homeless men found in Baltimore has decreased materially in the past decade. This is due in part to "better times,"

in part to the decrease of the oyster dredging industry, but in a considerable part to better methods followed recently in Baltimore in the care of homeless men. In bringing about this change the Friendly Inn has played an important part. To it are referred, as a rule, such homeless men as are able-bodied, the city paying ten cents for each one cared for, not exceeding a total of one thousand dollars in a year. The care which the men get, while plain, is thoroughly reasonable. Those men who are not physically able to do the work which is required of all at the Friendly Inn woodyard, are cared for by the city, generally at Bay View Hospital. Idle but able-bodied men have been practically kept out of Bay View Asylum, by care on the part of the admit clerks and by the work tests which are used there. The gathering of idle but able-bodied men is very demoralizing to any well-conducted almshouse, as well as to the men.

TRANSPORTATION OF THE DESTITUTE.

The "transportation" fund is not intended for sending poor persons about the country. It is used only for sending away persons who are already charges or likely to become charges on charity or the city, and to send them only to those places where inquiries made by our clerks show that they have work assured them, or relatives or friends ready to care for them, or where they are entitled to public aid. If sent away they are sent to such places, no matter how distant. A large number of applicants either cannot or will not give any references in the places in which they claim to belong. Able-bodied men are rarely given transportation. Special rates are secured, and reimbursements are collected whenever possible from the relatives or charities interested. No hardship falls on the applicants pending inquiry, as they are cared for, if destitute, at the almshouse or by some co-operating charity. The fund is administered by the clerks in the Bay View office. Care is taken to use other agencies for special cases wherever possible, such as the U. S. Immigration Bureau.

TRANSPORTATION OF THE DESTITUTE.

1903.	Applicants.	Transported.	Cost.	Refunded.
January	66	9	$33 92	
February	31	7	14 10	
March	45	1	2 65	
April	26	6	23 41	
May	25	8	10 46	
June	31	4	15 20	
July	37	14	34 10	
August	35	12	27 99	
September	24	5	32 93	$3 60
October	46	15	74 10	
November	33	8	24 84	10 40
December	40	15	81 36	
Totals	439	104	$375 96	$13 40

Appropriation	$800.00
Expended	375.05
Surplus	$424.94
Expended for fares	$359.46
Incidental expenses	15.60
Total	$375.06
Reimbursed	13.40
Actual cost to the city	$361.66

TYPICAL CASES.

In June last, a blind boy applied to us to be sent to Newport News. He stated he had been in Louisville, Ky., for three years, and had lost his sight by an explosion of gasoline while cooking in a hotel. He could not tell us the name of the hotel, but said they had closed up business, and the friend who had retained him at the hotel after his accident had disappeared, and he did not know where he had gone. He gave us the address of a minister in Louisville, to whom he said he was known. We wrote to the party named, and the letter, after having been sent to many different points, evidently

following the man up to addresses he possibly gave, was returned to us by the postoffice department. As we do not transport without positive knowledge that the party belongs in the place to which he may desire to go or will be cared for there, it is likely that this boy is a permanent charge at Bay View Asylum.

During the year, a comely young woman with an infant a few months old applied to us for transportation to California, stating that she came to Baltimore to find her husband, but upon reaching here, discovered he had gone to San Francisco. We communicated with her family in New Jersey, but found that they were not on good terms with the daughter, who was scarcely more than a baby herself—she having married without their consent—and they heartlessly refused to allow her to return home, or to give her any aid whatever. We called the attention of the "Glass Blowers' Union" to the case, the husband being a member of that organization. They immediately communicated with the Union in San Francisco, and discovered the man at work there. In the meantime, we had secured the address of an uncle in New Jersey, and wrote him. He replied without delay, censuring the girl's family for their conduct in the case, and stating he would receive his niece in his family and care for her until the husband could be brought to some sense of his responsibilities. Members of the Glass Blowers' Union raised quite a little sum to provide for the woman's care, placed her on the train for her uncle's residence, and promised to follow up her husband, compel him to support his wife and child or be expelled from the Union, which would prevent his ever again obtaining work wherever the Union might exist. The young wife left the Nursery and Child's Hospital, where we had obtained shelter for her pending investigation, in a more hopeful frame of mind than she had been in for some time.

In November a young woman with two small children was referred from the Police Marshal's office to our clerks in the annex. The woman bore with her a letter to our Chief of Police from the Chief in Harrisburg, Pa., requesting that he pass her on to Norfolk, Va. The woman had been deserted by her husband in Elmira, N. Y., several months previous. As she had relatives in Norfolk, some mission people in Elmira, with commendable sympathy but ill-advised judgment, provided her with transportation to Williamsport, Pa., and a letter to the Mayor at that point, requesting him to pass her along; from there she was passed along to Harrisburg, and from the latter point to Baltimore. The woman when she reached us was worn out and nervous and really sick. She could not understand why we would not pass her on to Norfolk immediately, and became so excited she

wished herself and children dead and buried. We took charge of the family, provided them with suitable shelter, and dispatched a letter to her relatives in Norfolk, urging them if they would receive the woman to telegraph at once, and also to write us; this they did, and the woman was sent on her way rejoicing, declaring that we were the true friends after all. She seemed finally to appreciate our method of sending destitute persons to their destination, instead of dumping them on other cities, with all the uncertainty attending such a course.

We have handled during the year many boys, ranging in age from twelve to eighteen years. Some have been sent to their homes by the Supervisors, after proper investigation, others have been furnished transportation by friends or relatives, to whom we have appealed. To "Brother Dennis," of "St. James' Home for Boys," we are indebted for housing many of the youthful wanderers pending investigation. Investigation discloses that a majority of the boys handled are not vicious or incorrigible, but are fired with ambition to go out and seek their fortunes and see something of the world. With young American ideas, their first desire seems to be to visit the Nation's Capital, and as we are such near neighbors to Washington, we catch a goodly number of those youngsters who come to grief.

BAY VIEW ASYLUM.

The Superintendent of Bay View Asylum, Mr. Louis F. Zinkhan, reports for the year, as follows:

Bay View Asylum has during the past year cared for 2,814 persons; 1,479 of these were admitted during the year, and 2 were born in the asylum. Of these, 1,123 were males and 358 were females. The smallest number present during the year was 1,157, on July the 7th, and the largest number was 1,407, on December the 31st. The daily average was 1,261, as against 1,236 11-12 in the previous year. Of all the cases received only 186 were non-residents. Seventy-one cases were brought to our attention through the Charity Organization Society and the Association for the Improvement of the Condition of the Poor.

The number of deaths for the year in the hospital department was 293; and in the insane department, 46, making a

total of 339 deaths. A number of the ambulance cases, as well as some of the insane patients, were in a dying condition when admitted. Our ambulance called for 150 patients, as against 117 in the preceding year.

The police magistrates committed during the year 170 paupers and habitual beggars, as against 112 in 1902. Of the total, 66 were committed from the Eastern and 48 from the Central Police Stations. The remaining 56 were committed from the other six station houses.

The law provides that only "such paupers and habitual beggars, who may not be able-bodied, but aged, seriously crippled, or infirm, may be sent to the almshouse;" but this provision has been sometimes overlooked by the magistrates, and we have thus received from them a number of persons who should have gone to the House of Correction. Some of these were so dissolute that they greatly disturbed the other patients, and some were insane. The sending of offenders to Bay View Asylum is much to be regretted. The institution is intended to be a refuge for the very poor and helpless, and not a penal institution.

The annual per capita cost for maintenance in the different departments is as follows: in the Infirmary, $68.78; in the Hospital, $135.40; in the Insane Department, $80.78.

We always aim to make a discriminate classification of patients; to assign them to their proper wards, and to provide employment according to their fitness and ability. Pensioners are admitted only in exceptional cases, and these are required to pay a moderate sum for their maintenance, this amount being turned into the city treasury.

In addition to the industries now carried on, it is proposed during the coming year to manufacture mattresses for use in the asylum. Our inmates manufactured during the year 12,051 garments and other articles, of which 3,137 were made in the insane department.

With the growth of the city there has been a normal increase in our population, and it is so great now that the

capacity of all the buildings is taxed to the utmost. This is especially true of the male insane wards, and of the white and colored male infirmary wards.

The Infirmary has the largest population, and includes in its various wards the aged, the crippled, the infirm in body, and the various defective classes. Its numbers vary from 550 in summer to 900 in winter.

The Hospital has a capacity for 250 patients. This will be greatly increased when the new consumptive hospital is completed. The latter will provide nearly 100 beds for phthisis cases. The new hospital buildings will be on an ideal site. They will be so equipped that the acute, as well as the most hopeless, cases of consumption will have very favorable hygienic conditions and good care.

Efforts are being made to improve the service in the nursing department. The Superintendent of Nurses has had much experience; four graduate head nurses have been added to the force; a head nurse has also been added to the night force, and the scale of wages has been increased.

In the Insane Department the female wards have been placed in charge of a graduate nurse. More than half of the patients are usefully employed, the men doing much of the out-door work. It is proposed to work many of the male patients on the new farm. Many of the patients received during the past year have been acute cases, and the results in cures and improvement have been very encouraging. An additional nurse was engaged to look especially after the consumptive patients, who have been placed by themselves in a corner of the women's building, away from the other patients. This arrangement is not satisfactory, and we hope it will be possible to provide accommodations for the insane consumptives somewhere in the new consumptive hospital. Dr. H. J. Berkley, of the visiting staff from the Johns Hopkins Faculty, deserves high praise for his splendid work in the insane department.

The Farm has hitherto had a very limited area, the asylum grounds covering only 70 acres. With buildings and recreation grounds occupying much space, but very little ground was available for cultivation and pasture. The new farm of 142 acres, recently purchased for the use of the asylum, gives these municipal grounds an area of 212 acres. This will furnish fine sites for new buildings in the future; will provide pasture and fodder for our stock; will give us many acres for truck farming, and will, moreover, give useful and wholesome employment to the insane patients. The entire farm has less than 15 acres of woodland. The net earnings of the farm for the year have been $1,395.63, counting at a fair value the 31,901 gallons of milk furnished and also the vegetables, hay and pork raised for use of the asylum. Our stock includes 37 cows, 10 horses and a number of pigs.

Of improvements made during the year, the following are the more important:

The laundry has been much improved by replacing four of the old washing machines with new ones of much larger capacity and modern design. These machines are also fine sterilizers.

A modern piggery has been built.

Extensive repairs have been made during the year to the grates and brick walls of the boilers.

A Webster water heater has been placed in the boiler-house. This makes it possible to use all the exhaust steam and condensation in our boilers. It will prove a great coal saver.

A steam dough mixer of three-barrel capacity has been installed in the bakery.

Our telephone system for connecting all our buildings has been much improved.

A 6-inch water main, with fire service plugs, has been extended to the new farm.

Safety valves have been placed on the two large fire pumps, which will insure more prompt service in case of fire.

With our own labor we have made a fine cinder path along Eastern avenue, extending from our front gate to Highlandtown, a distance of nearly half a mile. This has been a great convenience to visitors, as well as to officers, inmates and the public.

One of our proposed improvements is to segregate all our seniles, of both sexes, in the hospital annex, as soon as the new consumptive hospital is finished.

A suggested improvement is to remove the large storage reservoir from its present site, near the male hospital, and place it on the grounds in front of the main building.

A new electric plant will be required in the near future to replace the present one, which is too small.

More coal bunker room is also required.

Many friends of the inmates have held religious services during the year, and others have given delightful entertainments, which have been greatly appreciated.

The entire medical and nursing staff has done very good work during the year, and the same is true of all the officers of the institution.

Dr. William H. Smith, Resident Physician, reports of the medical and surgical department of Bay View Hospital, that the death rate for the year exceeded that of last year by 10. A number of consumptive patients were moribund on admission. Forty-nine died during the first week, 5 of them within the first four days. Dr. Smith feels that the new consumptive hospital will fill a long-felt want, not only to give better treatment to that class of patients, but the better to protect the other inmates of the institution. He urges that this hospital be put under constant and careful medical and nursing care.

The tables giving detailed statements of the population of the hospital will be found on page 82.

THE INSANE.

The number of applications for the care of insane persons has increased during the year from 404 to 544. Despite the removals made last year from Bay View to Springfield, the insane department at Bay View Asylum has again become crowded, so that the Mayor and City Council have granted for the coming year the means to remove eighty more. The great majority of those taken under care go to Bay View. As yet the State has made, practically, no provision for colored patients at the State Hospitals. Obviously, it should make such provision.

The Secretary of the Supervisors gives his personal attention to commitments of insane persons. He is now authorized by the Supervisors to consult the best expert advice as to particular cases when necessary.

Careful, and it is believed considerate, attention has been given by the office staff of the Supervisors to the collection of reimbursements, as authorized by an Act of Assembly of 1900, for the care of insane persons whose relatives are able to pay something for their care, but not the full rates charged at the hospitals. During 1900 the sum of reimbursements rose to $7,341.99. During 1901 it rose to $11,420.05. During the past year it has been $11,554.55.

Every means is used by the Supervisors to provide care and treatment as soon as possible for persons becoming insane. Prompt treatment is the surest means to recovery. The Supervisors urge constantly the duty of the State to make more adequate provision in well-equipped hospitals on extensive grounds, because as a rule such State institutions can care best for the insane. But they also remind the public that the insane department at Bay View Asylum, which has to be used at present for many cases, acute as well as chronic, is under the oversight of a professor of the Johns Hopkins Medical School, that the medical staff is appointed from the nominations of the Johns Hopkins University, and that the care at Bay View is humane and reasonably efficient.

The institutions other than Bay View now used by the city for the insane, and the maximum average number of patients allowed by the contracts, are:

Springfield	356
Spring Grove	245
Mt. Hope	245

Detailed reports are recived weekly from these institutions of the number of city patients received, discharged, paroled and dead.

Mr. Nathaniel G. Grasty, Secretary, reports that:

During the twelve months ending December 31st, 1903, inquiries were made at the office looking to the care of 544 insane persons. In many cases nothing further was heard of them. In some cases friends were able to have the patients cared for entirely at their own expense. Three hundred and eleven persons were sent to the following asylums as city charges, wholly or in part:

	White.	Colored.	Male.	Female.
227 to Bay View	165	62	124	103
25 to Spring Grove	25	..	17	8
35 to Mt. Hope	35	..	16	19
24 to Springfield	24	..	12	12

SUMMARY.

249 white.	169 male.
62 colored.	142 female.
311	311

Number of city patients in Mount Hope on December 31st	245
Number of city patients in Spring Grove on December 31st	240
Number of city patients in Springfield on December 31st	362
Total	847
Number of insane patients in Bay View on December 31st	401
Total	1,248

PAYMENTS TO INSANE HOSPITALS FOR 1903.

Maryland Hospital for the Insane, 12 months and 14 days ending October 14th, inclusive	$37,847.10
Springfield State Hospital, year ending September 30th	51,675.77
Mt. Hope Retreat, 12 months and 8 days ending December 31st	37,383.26
	$126,906.13
Paid to physicians for filling out insane certificates in special cases	42.00
	$126,948.13
Balance unexpended	51.87
Appropriation	$127,000.00

The rate per capita as fixed by law for the State Hospitals is $150.00 per year.

Total amount received for the year for reimbursing patients is $11,554.55

The number of patients reimbursing is 192.

Attention has been called repeatedly to the inadequate provision made by the State for the feeble in mind. The scores of these unfortunates found all around us, many of whom are cared for little better than animals, should long ago have caused deep concern, but aside from the inhuman neglect of these helpless creatures there is an economic side which will eventually force itself upon the community. "Comparatively few persons yet realize the increasing expense entailed upon the public by the progeny, often illegitimate, of feeble-minded women and the almost certain probability of these defectives being the mothers of another generation of unfortunates who, in turn, will be a blight upon society and an expense to the public. The public would be amazed, if it realized the whole truth, the enormous expense and the depth of degradation caused by these degenerates. Could they look into the future and see what would be the accumulated cost

piled up before them in money, in immorality, in succeeding generations of defectives, they would not rest until they had sought a means of prevention." In one of the near Western States, one feeble-minded woman had twelve children, another eleven, another eight. From the poor asylum reports of this State, the records of five women were taken to illustrate the evil results that come of such women, if unrestrained. From this partial record we learn "that 19 children have been born to these five women, and of fifteen of these, there are in the office of the Board of State Charities fairly complete records. These fifteen children have to date been maintained in the poor asylums and School for Feeble-minded at a cost, so far, of $10,400.00, and ten of them are still on public support, costing the public last year $1,163.10. All are young and are likely to remain public charges for many years to come. From a purely economic standpoint, the State had done well to segregate those five women years ago." Distressing cases are coming to light continually here in Baltimore. Applicants apply to this department for a relief which we are powerless to render, owing chiefly to the lack of room at the State School.

Dr. Henry B. Purdum, Resident Physician of the Insane Hospital at Bay View, reports that the general health for the year has been good. There has been no epidemic of any sort, and the male patients have had opportunities for valuable exercise on the farm, while the females have for the greater part of the time occupied themselves washing and sewing. They have made 3,152 new articles and repaired 48,728 articles of wearing apparel. The number of deaths for the year has been small, considering the greater number of patients under treatment. The number of admissions has far exceeded those of any other year. The number of cures was 35, a gratifying number.

Dr. Purdum urges strongly better isolation of the insane who have consumption. Seventeen were admitted during the year, some in incipient and some in advanced stages. He urges also better differentiation of the insane, calling special attention to the crowded condition of the male ward.

Of the attendants, he says: "During the year we were so fortunate as to procure a graduate nurse to take the position of Female Supervisor, and she, by her untiring efforts, has selected an excellent class of young ladies to fill the positions of attendants, and by so doing has elevated the work of the female nursing staff to a high degree of efficiency." He urges that every effort be made to maintain a staff of attendants on a plane, if possible, with leading hospitals for the insane.

The tables giving detailed statements of the population of the Insane Hospital will be found on page 62.

CITY PATIENTS IN HOSPITALS AND DISPENSARIES OTHER THAN BAY VIEW.

HOSPITALS

The policy which the Supervisors adopted two years ago, after very careful observation and inquiry, for the use of private hospitals for city patients, is believed to be absolutely essential if private hospitals shall continue to be used for city patients. It is, in brief, that the hospitals shall be limited to a few general ones, chosen because of location and of excellence of housing, care and service, and to a few hospitals which give exceptional treatment to special ailments. No two hospitals are used within a given portion of the city. If another hospital within a designated district wishes to be used by the city instead of the one at present used, it must be able to show to the judgment of impartial hospital experts that it can give better housing, care and service than the one being used. The old way of scattering city patients among a large number of hospitals, several of them perhaps in the

same neighborhood, was inevitably leading to waste of city money, to lack of efficient oversight by city officials, and to a responsibility by the city for the promotion of medical schools which were not the best. The choice must lie between a system like that now used or the provision by the city of its own hospitals. The contract price for the care of a patient per day is fifty cents. Payment is made at the same rate for each treatment of accident and emergency cases, not ordinary dispensary cases, where the patients are believed by the hospital officials and the Supervisors to be unable to pay a moderate fee for necessary treatment. The total payments on this account, however, are limited to moderate sums, for the intention is that the city should pay only for a portion of such cases. Some of them are of value to the medical schools for clinical purposes.

Returns from the hospitals of persons admitted as emergency or accident cases, or of persons received with admits from the hospital clerks of the Supervisors, are made to the clerks daily by the hospitals, and the clerks visit the patients frequently.

The kitchens of the hospitals have been visited and the dietaries examined.

The hospitals with which the city now contracts for the care of such sick persons as shall be accepted by the Supervisors as proper charges on the city are:

GENERAL HOSPITALS.

In the centre of the city the Baltimore City Hospital, owned by the Sisters of Mercy, the medical service being provided by the College of Physicians and Surgeons; for the southern and western portions of the city, the Hospital of the University of Maryland, located in the southwestern district, and the Maryland General Hospital, with medical service by the Baltimore Medical College, located in the northwestern district;

for East Baltimore, St. Joseph's Hospital, located in the northeastern district.

HOSPITALS FOR SPECIAL TREATMENT.

St. Agnes' Hospital, used by the city primarily for incipient nervous or incipient consumptive cases; the Hospital for Consumptives of Maryland, used for incipient consumptive cases; and the Hospital for the Relief of Crippled and Deformed Children. The Homeopathic Hospital is used for a limited number of cases, especially for those persons wishing homeopathic treatment.

Cases of chronic consumption, white and colored, are cared for as a rule in the annex hospital wards for consumptives at Bay View Asylum. St. Agnes', and especially the Hospital for Consumptives, used for incipient cases, are both located on high and extensive grounds outside of the city.

There is no reason why the city should scatter among many hospitals the service which it provides for acute and accident cases. Several hospitals, located in the different sections, which give excellent housing, care and treatment, are all that is needed. To carry a patient some distance in an ambulance is best, if necessary to do so in order to secure the best available care and treatment. In this connection mention may well be made of the large work done for this community, without cost to either patients or the city, by the Johns Hopkins Hospital, located in the very centre of East Baltimore, but receiving patients in its hospital wards and dispensary from all over the city.

CITY PATIENTS IN HOSPITALS DURING 1903.

	*Out-Patients.	Indoor.		Out-Patients.	Indoor.
January	234	754	July	338	709
February	218	680	August	374	704
March	224	735	September	274	663
April	281	650	October	245	641
May	290	628	November	245	686
June	330	641	December	219	628

NOTE.—A number of "indoor" patients remained over in hospital from one month to another, consequently were counted each month.

HOSPITAL.	Patients in Beds.	Out-Patients	Aggregate of Days Paid for.	Payment.
City Hospital	1,426	1,200	34,044	$17,022.00
University of Maryland	896	700	20,524	10,262.00
Maryland General	795	648	20,845	10,422.50
St. Joseph's	807	323	18,133	9,066.50
Homœpathic	299	400	8,234	4,117 00
St. Agnes'	178		8,198	4,099 00
Cripp'ed Children	40		5,474	2,737.00
Consumptive	27		3,650	1,825 00
Totals	4,468	3,271	119,102	$59,551.00

Appropriation		$62,000.00
Expended for "indoor patients"	$57,915.50	
Expended for "outpatients"	1,635.50	
		59,551.00
Surplus		$2,449.00

NOTE.—In the treatment of "outpatients" only one day is counted for each patient. In the total of "Aggregate of days paid for," after deducting the total for outpatients, an average of less than one month per patient will be found, except in hospitals where "special" diseases are treated, requiring three months, and in exceptional cases a much longer time.

*Outpatients are not ordinary dispensary cases, but are some of the emergency cases usually brought in by the police.

TYPICAL CASES.

During the past year a young woman was discovered in one of our hospitals. She had arrived with her parents from the "old country" only a short time before. The law requires that friends must give bond for those permitted to enter our borders, guarding against their becoming public charges within a specified time. We immediately reported the case to the Immigrant Commissioner, and we, by his advice, sought out the family and notified them if they did not at once assume payment for services rendered, the Commissioner would proceed with the deportation of the girl. Every effort was made by the family to evade the law, and finally, after several weeks' treatment, she was sneaked out of the hospital in an unguarded moment, her father thinking by this means he could get rid of the responsibility. But they were followed up and the entire family threatened with deportation. The result was the payment of the bill, which was promptly refunded to the city by the hospital.

Some time during the spring the proprietor of the St. Charles Hotel, near Union Depot, reported to the Police Department, who immediately referred the case to the clerks in our Hospital Department, that a woman had been housed there the night before who had been conveyed from the depot in a wheeling chair; that she was quite ill, without money or friends, and asked that she be removed to the hospital. One of our clerks went at once to the hotel and discovered that the woman had lost both feet, having tuberculosis of the bone, and she was also suffering from severe heart trouble. For months she had been traveling from point to point, assisted by such alms as she could collect from those whose sympathies were aroused by her helpless condition. One person became so interested that money was collected for the wheeling chair. The woman when told she would not be allowed to beg on our streets, became much excited, and said she would appeal to the railroad officials for a pass. She had no definite idea of where she wanted to go. She consented finally to be removed to Bay View. Every effort was made to locate relatives or friends, but the task was difficult, as the woman was very guarded in her replies to inquiries. We, however, succeeded in getting some addresses, and letters were written in every direction. Replies were not satisfactory; no one seemed to have had more than a passing interest in the woman. Finally, she declared that a humane man in Michigan had offered her a home, and she asked for transportation. A letter was at once dispatched to the address given, and, without delay, we received answer that the woman had requested admission,

but that she would not be received without a fee of $300.00—his rule in all cases. This woman is probably a settled charge, but she has been removed to Bay View.

During last winter, one of our well-known hospitals, not used by the city, applied to us for the transfer of a patient to Bay View. It was stated that the man's wife had induced those in authority to receive him under promise of $15 weekly for board and medical attention. The man is a chronic sufferer. The wife failed to meet this obligation, and the hospital informed her they would reduce the fee one-half and keep the man if this sum was forthcoming. Promises were given, but never kept, and we were finally appealed to for relief. The hospital positively refused to keep the man, and he was removed to Bay View. The wife is wealthy, living at one of our fashionable hotels in luxury, while the husband, who, it is said, in health was most devoted to his young wife, is permitted to remain in the almshouse. The man really seems to be relieved, as he has at last reached a haven where he is not annoyed and driven from post to pillar.

While the "Maryland Theatre" was being rushed to a finish in the fall, a young painter, who had been thrown out of employment in New York four weeks after his marriage, came on to Baltimore in answer to an advertisement for hands, and had only been at work a few hours when from some unknown cause he fell from the scaffold on which he was working and was dashed to the ground below. He was taken in the patrol to one of our hospitals and lingered for several days and died without regaining consciousness. The wife was entirely destitute of means and we had to assume responsibility for care in the hospital.

In April of last year the condition of a colored woman was reported having gangrene, and the niece with whom she lived was unable to properly care for her. A visit to the house disclosed the fact that the woman had lost one leg about the knee and the foot of the other one, they having literally dropped off piece by piece. The odor from the decaying limbs was overpowering, although everything about the bed was scrupulously clean. She was anxious to get into a hospital, but upon being told she would have to go to Bay View, she was much distressed. She finally agreed to think it over. Our visitor, being satisfied that the woman would require care for the rest of her life, and having made it very clear to her that Bay View was the proper place for her, after consultation with the hospital authorities, deemed it wise to send our ambulance and have her removed to the institution. A day or two thereafter the operation was performed at Bay View and the woman is deeply grateful for what has been done.

DISPENSARY SERVICE.

In providing dispensary service, very much the same system as that just described for hospital service was adopted two years ago, and for much the same reasons.

A great deal of medical service for the sick poor is given for clinical purposes by the medical school dispensaries, which are primarily educational institutions, and in all sections of the city a great deal of charity work is done by doctors and druggists, a work which is reasonable and natural, and should not be interfered with. The Supervisors believe that the duty of the city is not only to see that proper dispensary treatment is provided at city cost for those who cannot get it otherwise and cannot pay for what they get. The city is now contracting with a limited number of dispensaries only, situated each in a different district of the city.

They are: For the Southeastern district, the Baltimore Eastern Dispensary; Northeastern district, the Northeastern Dispensary; Southwestern district, the Baltimore General Dispensary; Northwestern district, the Woman's Medical College Dispensary. The use of the Baltimore Eye, Ear and Throat Charity Hospital Dispensary has been continued, especially for patients in West and South Baltimore.

Following is the communication which was sent in 1901 to the dispensaries used by the city:

The Supervisors hereby notify the district dispensaries designated for city use for 1901, that the following principle and methods will be held indispensable for dispensary work to be done for the city in future by district dispensaries:

(1) The object of the dispensary should be to provide at the dispensary or at the homes, in addition to the necessary drugs, such medical attention as persons able to pay physicians are accustomed to obtain from good family physicians.

(2) A sufficient force of physicians should be attached to a dispensary to insure time for reasonable diagnosis and treatment at the dispensary and give all necessary visits in the homes.

(3) Visiting in the homes of persons who are too ill to go to the dispensary, and who should not or cannot be sent to a hospital, is an

essential part of dispensary work, and in no case should a person be treated without been seen.

(4) The physicians should be graduates, in good standing, of medical schools belonging to the American Medical College Association, and be approved by the Supervisors of City Charities.

(5) There should be a "waiting room," and also a room for the examination and treatment of patients in private, and all rooms should be kept neat and clean.

(6) During the hours when the women and children are treated a competent woman should be in attendance.

(7) Proper records should be kept of case work. The matter of record is more important than the form, but the "card system" with case histories is recommended.

(8) The understanding is that the only sick persons for whom medical attendance can be provided by the city are those who are unable to provide it for themselves, and who may not be cared for by private charity or medical agencies not used by the city.

(9) Persons who need hospital treatment, not emergency cases, and who may not be placed in hospitals without cost to the city, should be referred to the hospital clerks of the Supervisors, City Hall Annex—office hours, 9 A.M. to 2 P.M.; Saturdays, 9 to 12 M.; telephone, Mt. Vernon 22-M, and City 35.

Also, the following suggestions were made to the dispensaries:

That they co-operate heartily with agencies for nursing the poor in their homes, such as the Instructive Visiting Nurse Association, where nursing in the homes of the sick will be of service. All calls made at the dispensary for outside visiting might be entered in a book at the dispensary, which the nurse visiting in the district could consult for calls.

That they co-operate with well-known charitable agencies, such as the Charity Organization Society, the Society for the Improvement of the Condition of the Poor, and the Hebrew Benevolent Association, etc., where any form of relief other than medical is believed to be needed.

In the Southern Dispensary District the Supervisors established in December, 1902, its first City Medical Agency.

The two physicians are city employes in constant touch with the Supervisors' office. The aim of the agency is to supply

the services of a good family physician and necessary drugs to the very poor who are not otherwise properly cared for. It is not intended to supplant work done by medical school dispensaries, charity dispensaries, or kind physicians of the neighborhood for the very poor. The aim is in every case to base the treatment on the most careful diagnosis. Necessary drugs are given, but the use of drugs is made secondary to careful diagnosis and good advice under constant oversight. While the physicians are at a central office at a given time each week day, persons who cannot or who should not leave their homes, and who are not hospital cases, are treated in their homes. Most of the physicians' time is given to visiting in the homes.

Persons who though poor are yet able, without privation, to pay car fare to and from a dispensary where excellent treatment can be had without cost to the city, as for instance at the Johns Hopkins Medical School, are encouraged, if their condition permits, to avail themselves of those opportunities by their own means. The aim is thus to work in effective cooperation with useful existing agencies. Attention of the Instructive Visiting Nurse Association is called to cases which are found to need the services of an instructive nurse. Attention of the Charity Organization Society is called to cases which are believed to be in need of relief other than medical.

The office of this first City Medical Agency was located in the Neighborhood House, 1418 Light street, the centre of work of several important charitable agencies, in the very middle of the Southern District. The assistant is a woman physician, who gives her attention to women and children. She and the physician-in-charge, a recent graduate of the Johns Hopkins Medical School, have both had experience in the best dispensary work.

Dr. Herman Brulle, Medical Agent, reports for the work done by himself and his assistant, Dr. Jennie M. Brown, during this first year of the agency, as follows:

SUMMARY 12 MONTHS ENDING DECEMBER 31, 1903.

Total number of persons treated	744
Total number visits made to agency	1,448
Total number treated in homes	605
Total number visits to homes	1,723
Total number prescriptions put up outside the agency	58

PAYMENTS FOR DISPENSARY SERVICE FOR YEAR 1903.

Appropriations	$800 00	$350 00	$200 00	$ 75 00	$1,425 00
	Indoor 25c. Each.	Out 35c. Each.	Special 50c. Each.	Prescription 15c Each.	Paid to Date.
Eastern.					
First quarter	$200 00	$ 40 95	$ 50 00	$ 9 45	$ 300 40
Second "	200 00	48 65	30 00	6 60	285 25
Third "	200 00	41 30	66 00	6 90	314 20
Fourth "	200 00	28 00	54 00	6 75	288 75
Total					$1,188 60
Northeastern.					
First quarter	$200 00	$ 87 50	$ 50 00	$ 18 75	$ 356 25
Second "	200 00	87 50	50 00	18 75	356 25
Third "	200 00	87 50	50 00	18 75	356 25
Fourth "	200 00	87 50	50 00	18 75	356 25
Total					$1,425 00
Western.					
First quarter	$162 00	$105 00	$ 33 00	$ 15 75	$ 315 75
Second "	198 00	105 00	38 50	12 45	353 95
Third "	269 00	70 00	28 50	12 90	380 40
Fourth "	171 00	70 00	38 50	9 30	288 80
Total					$1,338 90

PAYMENTS FOR DISPENSARY SERVICE FOR THE YEAR 1903.

Appropriations.....	$800 00	$350 00	$200 00	$ 75 00	$1,425 00
	Indoor 25c. Each.	Out 35c. Each.	Special 50c. Each.	Prescription 15c. Each.	Paid to Date.
Northwestern.					
First quarter	$136 75	$103 95	$ 50 00	$ 1 20	$ 291 90
Second "	151 75	57 40	43 50	1 05	253 70
Third "	153 75	51 80	41 00	45	247 00
Fourth "	142 50	88 20	57 00	.....	287 70
Total					$1,080 30

Eye, Ear and Throat.		Appropriation ..... (Treatments 25c. each.)	$700 00
First quarter.....	$175 00		
Second "	175 00		
Third "	175 00		
Fourth "	175 00		
Total	$700 00		

City Medical Agency, Southern District.....	$264 78
First quarter	278 41
Second quarter	260 39
Third quarter	376 48
Fourth quarter	.....
	$1,180 06*
Total disbursements	$6,912 86

*Of this there were expended:

For salaries	$800 00
For rent	135 00
For car fare	25 00
For drugs	72 99
For equipment	20 70
Equipment for 2d Agency about to be opened in West Baltimore	126 37
Total	$1,180 06

DESTITUTE OR NEGLECTED CHILDREN.

By the new charter the Supervisors are charged with two important duties toward destitute and neglected children, namely, to decide with care what children should be accepted as city charges, and to watch carefully over the bringing up of children once accepted as city charges. This care in the acceptance of children is needed chiefly in order that the natural ties and duties of kinship may not be weakened. In the oversight of city charges the first thought should be the welfare of the children.

The city law department instructed the Supervisors, in answer to their inquiry made when they took office, that "The Board of Supervisors of City Charities are expected to look after any child or children, and have his or her or their circumstances carefully examined once in every six months by one of the Supervisors, or by a skilled agent or agents appointed by them for the purpose, until the child has attained its majority or shall have been given over absolutely to the care of a proper guardian, with the approval of the Supervisors or by a court of competent jurisdiction. The welfare of the child is committed to your care and custody, and does not cease when consent is given by the Supervisors to have the child transferred from an institution to some respectable family."

The Supervisors believe that in the care of destitute or neglected children taken as city charges, the powers and duties given them by the City Charter have been a distinct help to the institutions used and also to the children.

The Supervisors furnish for the institutions used for the care of city children not only the machinery for proper inquiry as to taking and giving up children, but also the proper facilities for "placing out" children in family homes. For "placing out" work of city charges the requirements of the

charter are plain (Section 107). The Supervisors are charged with the duty, where children who are city charges are placed out, of having them visited "and their circumstances carefully examined at least once in every six months by one of the Supervisors or by a skilled agent or agents appointed by them for the purpose."

A recent law of Maryland, 1900, Chapter 316, which defines the powers of juvenile institutions, provides that when children are placed out in homes by the managers of institutions, "it is the duty of the managers to cause every child so placed out to be visited not less than once in every six months in order to inquire into its welfare." In placing out children the Supervisors have adopted a rule which experience shows to be necessary, of examining a home before a child is placed in it, in order to see as far as possible if it will fit the child and the child will fit it.

Equal care is taken also before consent is given to applications from relatives to have children given over to their custody. If children are taken under care, they should not be returned until the purpose for which they are taken is accomplished. The policy of the Supervisors, when in doubt as to the fitness of relatives, is by withholding consent to place on a judicial officer the decision as to fitness, if the relatives care enough to try to get the children by process of law.

Mr. T. J. Hunter, Visitor-in-Chief, reports:

During the year ending December 31st, 1903, 259 applications were made to have 406 children placed in institutions or otherwise cared for. A number of applications came to us for aid in which the children were not primarily involved, and were at once referred to the proper agencies for relief.

These of course are not included in this report. The recorded applications were disposed of, as follows:

	White.	Colored.	Total.
Referred to private charity, with the hope of keeping the family together or of family paying board for the children	185	37	222
Referred to private charity to place in good country homes	10	.....	10
Parents or relatives found able and willing to care for	38	46	84
Placed in institutions as follows, to become city charges:			
St. Vincent's Infant Asylum	24	.....	24
Nursery and Child's Hospital	21	.....	21
St. Elizabeth's Home for Colored Children	.....	16	16
St. Mary's Home for Colored Boys	.....	2	2
Maryland Home for Friendless Colored Children	.....	9	9
Home of the Friendless	2	.....	2
St. Vincent's Male Orphan Asylum	4	.....	4
St. Mary's Female Orphan Asylum	12	.....	12
Total	296	110	406

Of the above, 21 were abandoned children, 14 white and 7 colored, of whom 16 were foundlings, 10 white and six colored, and 70 were illegitimate children, 34 white and 36 colored.

We were summoned by the magistrate for juvenile causes to appear in 42 cases involving 74 children, 59 white and 15 colored. Parents were allowed to retain 12 of these children, 5 were committed to reformatories, 9 were committed to the Henry Watson Children's Aid Society, 48 were committed to institutions, parents to pay board for 5 of these, and the remainder, 43, to become city charges.

We have endeavored to keep in touch with the known parents and relatives of the children committed to institutions under our supervision, and a number of these have requested

us to return the children to them. After careful inquiry into and visitation of the homes, 24 white children were returned.

Many of the children, however, either have no parents or relatives, or their parents or relatives offer no hope of ever being suitable persons to care for them. Seventy-three of these children, 50 white and 23 colored, were placed in 71 free private homes. Three hundred and eight of these homes were offered during the year. Several were withdrawn after learning the conditions attached to placing children. For a number, we had no children of the age required. After very careful inquiry into the homes and surroundings by visitation and correspondence with the pastor, physician and many others, many of the homes were thought to be unsuitable, but the above 71 were selected, as we felt the children would receive kind and considerate home training, schooling, etc.

Co-operating with the institutions which receive infants for the city, 10 of these infants, 7 white and 3 colored, were placed in boarding homes to be nursed at the breast by women whose own babies had just died. All were abandoned children, 9 being foundlings, and most of them were received in bad condition. Two of them were returned to the institution the same or the next day, as they were in such bad condition the women were unwilling to keep them, and they died within a few days; 1 was returned to the institution, as the woman neglected it, and 4 died in the homes. The remaining three seem to be doing well. In all these cases the child has been examined by a physician before being placed, also the woman before receiving it, in order to avoid infection. Considerable difficulty has been experienced in securing these homes as soon as the infants are received, and some of them die before the home is offered. We hope to overcome this by the following circular letter, which has been prepared and is now ready to be sent to the physicians:

"From time to time the Supervisors need homes for infants from a few days to six months of age, where they can be

cared for, under our supervision, can be mothered and nursed at the breast, board being paid for them. In your practice you may occasionally know of such a home. Possibly the mother has lost her baby, and for $12.00 per month would nurse another. If through the doctor's efforts a home is selected by the Supervisors and an infant placed in it, we feel that our custom of remunerating the physician $5.00 for his time and trouble should be generally known, hence this card. This applies only to such cases where the Supervisors actually place an infant in a home, for they may not always have an infant to be placed.

"Kindly keep the card for reference.

"SUPERVISORS OF CITY CHARITIES.

C. & P. Telephone, Mt. Vernon 271. "City Hall."
Maryland Telephone, City 34.

DEATH RATE, 1903, CITY CHARGES UNDER TWO YEARS.

	Received under 2 years of age.			Died.			Average Death Rate.		
	Found-lings.	Others.	Total.	Found. lings.	Others.	Total.	Found-lings.	Others.	Total.
St. Vincent's Infant Asylum	7	9	16	4	6	10	57 1/7%	66 2/3%	62 1/2%
Nursery and Child's Hospital	4	7	11	3	5	8	75%	71 3/7%	72 8/11%
St. Elizabeth's Home	5	3	8	4	1	5	80%	33 1/3%	62 1/2%
	16	19	35	11	12	23	68 3/4%	63 3/19%	65 5/7%

The number of deaths among all the children, city charges, in the institutions have been as follows:

	White.	Colored.	Total.
St. Vincent's Infant Asylum	17	.....	17
Nursery and Child's Hospital	12	.....	12
St. Elizabeth's Home		6	6
St. Mary's Home		1	1
Total	29	7	36

22 of these were under one year, 11 being foundlings.
5 were between 1 and 2 years of age.
4 were between 2 and 3 years of age.
2 were between 4 and 5 years of age.
1 was between 5 and 6 years of age.
1 was between 8 and 9 years of age.
1 was between 13 and 14 years of age.

Six of the girls, 4 white and 2 colored, reached their 18th year, and their names have been removed from our list of charges. Two of these are in St. Joseph's House of Industry and 4 are with good private families and are giving satisfaction.

Seven of our charges were transferred to reformatories, as they had become unmanageable, 4 to the House of the Good Shepherd and 3 to St. Mary's Industrial School.

One colored boy was transferred from St. Mary's Home for Colored Boys to Bay View Asylum, as he had become seriously affected with tuberculosis, and there was danger to the other boys in St. Mary's Home. One white girl who had become blind was transferred to the Maryland School for the Blind.

3,357 visits were made in order to make careful inquiry into the circumstances and needs of 577 children. This includes visits made to free private homes where children have been placed, and to boarding homes where infants have been nursed.

The children who are under the supervision of the Supervisors of City Charities are distributed as follows:

With Payment of Board.	White	Colored.	Total.	Rate of Payment a Day.
In St. Vincent's Infant Asylum	82			20c.
In Nursery and Child's Hospital	38			20c.
In St. Elizabeth's Home		50		20c.
In St. Mary's Home		15		20c.
In Maryland Home for Friendless Colored Children		16		20c.
In Home of the Friendless	27			20c.
In St. Vincent's Male Orphan Asylum	19			22c.
In General German Orphan Association	12			22c.
In Baltimore Manual Labor School	10			
In St. Mary's Female Orphan Asylum	102			24c.
In St. Joseph's House of Industry	14			24c.
	304	81	385	
In Private Homes	2	1	3	40c.
Total	306	82	388	
Without Payment of Board.				
In Institutions	20	5	25	
In Private Homes	90	26	116	
Total number of children under care and supervision	416	113	529	

With the end of the year the use of the Baltimore Manual Labor School and of the General German Orphan Asylum will cease, as those institutions are not needed for the care of children accepted as city charges.

In all the destitute children's cases we have endeavored by thorough inquiry to learn first the real needs in each case, and then to discover all the resources that could be drawn upon to meet these needs,

There has been constant pressure for the care of children who are feeble in mind. So far the State has made inadequate provision for white children and no provision for colored children. The Supervisors have adopted the rule that they will receive at Bay View Asylum such idiots and imbeciles only as cannot possibly be received at the State school, or be otherwise properly provided for, and as have positively to be removed from their homes because their presence in the homes causes serious neglect of these children, and suffering and extreme poverty to the caretakers. A few extremely pressing cases of white children have been cared for at the State school by means of transfer of hopeless cases from the school to Bay View.

TYPICAL CASES.

A. was placed with a private family by the institution without consulting this office, as the fact that she was a city charge was lost sight of at the time. As soon as we learned she had been placed, the home was visited and careful inquiry made. It was not a home which we would have recommended, but as she was being sent to day school and church regularly and the pastor recommended the foster parents, it was concluded to let her remain for a time and to watch the home carefully. Some time afterward the foster mother died, and we learned that the foster father was immoral, and a son living at home was intemperate and probably immoral. A. was immediately returned by us to the institution.

B.'s parents separated because of differences arising between the mother's relatives and the father. The mother went to live with her relatives, taking B. Later the mother became insane, and was placed by her relatives in an institution for treatment, and at the same time we were asked to relieve them of the care of B. We found the father and his mother willing to care for B., and proper persons, and he was given over to them.

Application was made to have C. placed in an institution, as her mother could not possibly care for her. We found the father and mother not living together. He was willing to care for C., but the mother was not willing to give her to him. They were induced to overlook their differences and to care for C. together.

D. was three and a-half years' old, but was very small and had not developed beyond what an average child would be at two years of

age. He had been in an institution since he was one month old. He had no known parents or relatives. We found him a home with a private family in the country. Two weeks after he was placed, his foster mother wrote to us that she feared he would never become a normal child, and that she had been advised to return him. We asked her to give the child a few months' trial. The result has been that D. has developed into a fine sturdy little fellow, and has been legally adopted by his foster parents.

E. Was an abandoned child and had been placed in an institution for care. We found a home for her in a private family. At this time she was a small delicate child, three and a-half years' old, had made no effort to walk or talk, and only weighed about fifteen pounds. She gained a pound a week for the first ten weeks, and in four months was walking well, learning to talk, and her foster parents are delighted with her.

F. was placed in a private home, which seemed to be a good one. The foster parents became fond of her and were anxious to keep her, but in our supervision of the case we found the foster mother's lack of training and poor judgment was developing bad traits and ugly habits in the child, and so the child was removed

We placed G., a girl thirteen years' old, in a private home. Later, complaints came that she was incorrigible and very troublesome and should be sent to the House of Good Shepherd. We found another home for her with a private family. Here patience and consideration have been shown her, and all parties concerned are satisfied.

Mr. and Mrs. J. offered a home for one of our girls nine years of age. The letters from the pastor, doctor and several others seemed to show the home to be a good one. In our visits to the home we found the woman to be coarse, unrefined in language, and in other ways not capable of training a girl properly. The application was refused.

K. and L., children, three and a-half and six years' old, were committed to an institution through the Juvenile Court and accepted as city charges. These children had been taken from a house which had been raided by the police. The father was proprietor of the house, which was a resort for white and colored men and women. The mother of the children was dead. The children remained in the institution one and a-half years, while we kept in touch with the father. In the meantime he married a respectable woman, moved into a respectable neighborhood, and after a year's trial, we gave over the children to them.

The work of the city offices is under the charge of the Secretary, and under the supervision of the Office Committee and the President of the Board. Information can be had about persons, by those who are properly interested in them, at a moment's notice from careful records.

The names of persons admitted to Bay View Asylum or transported from the city are given to the Charity Organization Society, in order that that information may be made available to charity-workers in the community who are interested in those persons.

Following is a brief statement of the appropriations made to the Supervisors by the Mayor and City Council, and the amounts expended by them during the year 1903:

	Appropriated.	Expended.	Unexpended Balance.
Bay View Salaries	$24,100 00	$23,444 59	$ 655 41
Bay View Expenses	97,600 00	97,599 06	94
City Office Salaries	6,500 00	6,371 67	128 33
City Office Expenses	1,000 00	822 98	177 02
Temporary care of homeless men	1,000 00	912 40	87 60
Transportation	800 00	375 06	424 94
Hospitals	62,000 00	59,551 00	2,449 00
Dispensaries	7,850 00	6,912 86	937 14
Insane	127,000 00	126,948 13	51 87
Destitute and Neglected Children	35.000 00	31,324 88	3,675 12

The amounts turned over to the city during the year 1903 for reimbursements, etc., have been:

From Bay View Asylum, sale of old material	$ 228 86
From Bay View Asylum, board of inmates	529 40
From Bay View Asylum, rent of Hardesty farm	300 00
Reimbursements for transportation	13 40
Reimbursements for care of insane	11,554 55
Total	$12,626 21

In closing this report the Supervisors repeat what was said in closing their report last year. The policy of the city in caring for its destitute charges should, of course, be an economical one, but economy in the true sense of the word is judged not so much by immediate small expenditures or savings, as by the provision, even at increased expense, of such care as will in the long run restore the dependent to independence and the ill to health, and thus shall tend to prevent pauperism and crime. Experience teaches more and more that the best economy in charitable work is the employment of the best persons possible to get—those who combine intelligence with real interest in the work and with a belief in its value and dignity. For effective charity work those persons are needed who have proven their effectiveness in that or in some other calling. They must be willing also to study and think and learn constantly.

JEFFREY R. BRACKETT, *President.*
MRS. JOHN J. ABEL,
JOHN BLACK,
JOHN M. GLENN,
ELISHA H. PERKINS,
HENRY STEFFENS,
MACTIER WARFIELD,
CHARLES WEBER, JR.,
JAMES R. WHEELER.

OFFICIAL STAFF.

CITY OFFICES.

Hours, on week days, from 9 A.M. to 2 P.M.; Saturdays 12 M.

City Hall Office, first floor by Lexington street entrance.

Secretary.....NATHANIEL G. GRASTY.
Visitor-in-Chief.....T. JAMES HUNTER.
Visitors.....MISS E. WALSH. MISS M. O SIMPSON.
Clerk and Stenographer.....MRS. HORTENSE BOWKER.

To this office should be referred all matters touching the insane, and the destitute and neglected children with whom the city is concerned.

City Hall Annex Office, Gay street, between Lexington and Saratoga streets—City Office of Bay View Asylum.

Admit Clerk.....GEORGE SCHUSTER.
Clerk and Visitor.....MRS. E. DUVALL.

To this office should be referred all applicants for care or treatment in Bay View Asylum or in hospitals as city patients and destitute persons asking transportation.

City Medical Agency, Southern District, 1814 Light street.

Physician-in-Charge.....DR. HERMAN BRULLE.
Assistant Physician.....DR. JENNIE N. BROWNE.

The Southern District includes all of South Baltimore as far north as the harbor, Camden street and Columbia avenue. Its aim is to supply the services of good family physicians and necessary drugs to the very poor of the district who cannot otherwise procure them.

BAYVIEW ASYLUM.

OFFICIAL STAFF.

Superintendent.....LOUIS F. ZINKHAN.
Clerk and Purveyor.....LAMAR HOLLYDAY.
Chief Matron.....NANNIE E. WORSLEY.
Centre House Matron.....MINNIE HILLEGIST.
Superintendent of Nurses.....MRS. K. C. LUCAS.
Apothecary.....A. W. McGLANNAN, Ph.G.
Engineer.....JAMES J. FARRELL.
Assistant Engineer.....WILLIAM H. STEVENS.
Farmer and Gardener.....J. B. HUNTER.
Messenger.....THOMAS CONNOR.
Baker.....C. C. THOMAS.
Clerk .....D. E. HAMMOND.
Bookkeeper.....W. T. SLOTHOWER.
Supervisor Insane Department (Male).....FRED. HUDGINS.
Supervisor Insane Department (Female).....ROSA PETTUS.
Supervisor Centre House.....PHILIP HARVEY.
Sewing Teacher.....MARY MERCER.
Laundress.....LOGAN CAREY.

MEDICAL AND SURGICAL STAFF.

BAYVIEW HOSPITAL.

WILLIAM H. SMITH, Resident Physician.

Assistant Resident Physicians:

W. S. SUDLER, M.D.
A. L. WILKINSON, M.D.
F. J. WILKENS, M.D.
CHARLES RICHARDSON, M.D.

VISITING STAFF.

Physicians:

W. O. MESSICK, M.D.
THOS. LATIMER, M.D.
JAMES GICHNER, M.D.
W. F. LOCKWOOD, M.D.
H. G. BECK, M.D.

Surgeons:

FRANK MARTIN, M.D.
ST. CLAIR SPRUILL, M.D.
J. W. HOLLAND, M.D.
J. W. CHAMBERS, M.D.
I. R. TRIMBLE, M.D.

CHAS. F. BEVAN, M.D.

Neurologists:

C. W. McELFRESH, M.D.
GEORGE J. PRESTON, M.D.

Eye and Ear:

E. J. BERNSTEIN, M.D.
LEE COHEN, M.D.
H. FRIEDENWALD, M.D.
OTTO SCHAEFER, M.D.

Gynecologist:

THOMAS OPIE, M.D.

Obstetricians:

L. E. NEALE, M.D.
CHARLES E. BRACK, M.D.

Throat and Nose:

M. R. WALTER, M.D.
F. D. SANGER, M.D.

Diseases of the Stomach:

JULIUS FRIEDENWALD, M.D.

Pathologist:

EUGENE OPIE.

INSANE DEPARTMENT.

Resident Physician:

HARRY D. PURDUM, M.D.

Assistant Resident Physicians:

DAVID C. CATHER, M.D.
J. P. P. HOLLINGSWORTH, M.D.

VISITING STAFF.

Alienists:

HENRY J. BERKLEY, M.D.
I. J. SPEAR, M.D.

Surgeon:

EUGENE McE. VAN NESS, M.D.

Gynecologist:

J. WHITRIDGE WILLIAMS, M.D.

Opthalmologist:

JAMES J. MILLS, M.D.

BAYVIEW ASYLUM.

FINANCIAL STATEMENT FOR YEAR ENDING DECEMBER 31ST, 1903.

Amount of Appropriation for Salaries	$24,100 00	
Amount of Appropriation for Expenses	87,600 00	
Amount of Appropriation for New Hospital	10,000 00	
		$121,700 00
Amount of Appropriation Used.		
Salaries	$23,444 59	
Expenses	84,611 51	
Special Improvements	12,987 55	
	$121,043 65	
Balance unexpended	656 35	
		$121,700 00
Classified Expenditures.		
Provisions, General Supplies, Light, Fuel and Salaries	$108,056 10	
Special Improvements, Feed Water Heater and installing same, Laundry Washers, Hog House, and amount reserved to apply to contract for New Hospital	12,987 55	
		$121,043 65
Unexpended Appropriation.		
Salaries	$655 41	
Expenses	94	
		$656 35
Table Showing Division of Disbursements.		
Administration	$11,615 65	
General House	38,156 77	
Hospital	27,035 26	
Insane	26,218 54	
Farm	5,029 88	
Special Improvements	12,987 55	
		$121,043 65
Amounts Received and Paid to City Comptroller.		
Board of Inmates	$529 40	
Sales of Old Material	228 86	
Rent of Hardesty Farm	300 00	
		$1,058 26
Expended of Appropriation	$121,043 65	
Less Revenue paid to the City Comptroller	1,058 26	
Net cost to the city		$119,985 39

Average census, 1.261.

Average net cost per capita of maintenance, in all departments—1902, $83.35; 1903, $84.85.

Cost Per Capita of the Several Departments.

General House	$ 68 78
Insane	80 78
Hospital	135 40

Itemized Expenses, as shown by Ledger, and Comparative Statement 1902 with 1903.

	1902.	1903.	Increase.	Decrease.
Centre House	$9,655 61	$9,527 35		$128 26
General House	17,891 67	16,748 89		1,142 78
Insane	16,022 07	15,694 95		327 12
Hospital	15,069 01	14,052 46		1,016 55
Drugs and hospital supplies	3,230 36	3,400 93	170 57	
Laboratory	488 60	344 35		144 25
Farm	4,873 95	5,029 88	155 93	
Stables	1,127 55	1,134 74	7 19	
Fuel	10,409 42	12,978 62	2,569 20	
Light	1,260 96	1,113 54		147 42
Clothing	5,200 23	4,903 84		296 39
Bedding	1,173 99	2,009 96	835 97	
Laundry	886 52	925 47	38 95	
Painting	394 84	519 26	124 42	
Ordinary repairs	1,687 39	3,524 32	1,836 93	
General expenses	14,701 27	14,609 10		92 17
Special improvements	2,584 83	12,987 55	10,402 72	
	$106,658 27	$119,505 21	$16,141 88	$3,294 94
		106,658 27	3,294 94	
Net increase		$12,846 94	$12,846 94	

Respectfully submitted,

LAMAR HOLLYDAY, *Purveyor.*

FARM FOR YEAR ENDING DECEMBER 31, 1903.

EARNINGS.

31,901	Gals. Milk	15	$4,785 15	
581	11-12 Doz. Eggs		103 77	
1,392	Buns. Salsify	5	69 60	
778	Buns. Thyme	1	7 78	
26	Buns. Sage	1	26	
374	Doz. Celery	12	44 88	
22	Pks. Peppers	50	11 00	
341	Bus. Carrots	40	136 40	
12	Bus. Parsnips	50	6 00	
291	Hds. Lettuce	2	5 82	
19½	Bus. Onions	60	11 70	
2,320	Buns. Onions	2	46 40	
4,418	Buns. Radishes	2	88 36	
15	Buns. Mint	5	75	
107	Bus. Sprouts	30	32 10	
274	Bus. Rutabagas	30	82 20	
987	Buns. Parsley	1	9 87	
3,176	Hds. Cabbage	2	63 52	
56	Bus. Peas	70	39 20	
279	Doz. Squash	12	33 48	
936	Buns. Beets	5	46 80	
1,189	Doz. Corn	12	142 68	
725	Bus. Tomatoes	30	217 50	
11	Bus. Lima Beans	60	6 60	
106	Bus. String Beans	50	53 00	
13,327	Lbs. Pork	7	932 89	
185	Bus. Turnips	25	46 25	
152	Qts. Raspberries	12	18 24	
29	Qts. Blackberries	10	2 90	
	Total earnings	—		$7,045 10

EXPENSES.

Salaries	$1,006 64	
Seeds, Implements, Fertilizer and sundries	520 50	
Feed, Hay and Bedding	3,584 33	
Exchange Cows	188 00	
Two New Horses	350 00	
Total expenses		$5,649 47
Profit		$1,395 63

TABLE A.

Showing the Number of Persons Admitted, Born, Died, Discharged, Escaped, Etc.; the Number remaining at the End of Each Month, and a Comparison with 1902.

1903.	Admitted.		Born.		Died.		Discharged.		Escaped.		Eloped on Passes.		Remaining.	
	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.
January	154	148	2	0	33	26	109	44	1	0	7	8	1,339	1,338
February	133	148	0	0	31	32	64	49	3	3	4	7	1,370	1,395
March	128	117	0	0	41	37	141	179	14	5	6	15	1,296	1,276
April	99	119	0	1	25	31	117	107	5	9	13	16	1,235	1,238
May	99	86	0	1	27	22	112	129	7	4	13	17	1,175	1,148
June	108	100	0	1	30	30	56	62	3	2	12	9	1,182	1,146
July	107	113	0	0	30	21	60	54	7	4	10	14	1,182	1,166
August	106	118	0	1	18	29	55	71	3	2	7	6	1,205	1,177
September	110	111	0	0	18	28	57	66	2	4	4	3	1,234	1,187
October	123	111	0	0	31	20	40	48	4	1	9	8	1,273	1,221
November	121	120	0	1	28	19	41	62	2	2	9	13	1,314	1,746
December	191	171	0	0	27	31	56	43	2	4	9	6	1,411	1,333
Totals	1,179	1,462	2	5	339	326	908	914	53	40	103	122	...	...

TABLE A—Continued.

	1903		1902	
In the Asylum December 31, 1902.....	1,333	.....	1,268	.....
Total ingress (including readmissions)....	1,481	2,814	1,467	2,735
Total egress	.....	1,403	.....	1,402
In the Asylum December 31, 1903.....	.....	1,411	.....	1,333

Supplement to Table A.

Showing the Number of Single Admissions and Readmissions, and a Comparison With 1902.

	1903	1902
Single Admissions	1,283	1,285
Readmissions	198	182
Totals	1,481	1,467

	1903	1902
Admitted to Asylum 2 times.....	126	115
Admitted to Asylum 3 times.....	29	24
Admitted to Asylum 4 times.....	2	5
Admitted to Asylum 5 times.....	2	1

TABLE B.

Showing the Birthplace of Persons Admitted to the Almshouse, From Jannary 1, 1903, to December 31, 1903, and a Comparison With 1902.

Natives.	1903.	1902.	Foreigners.	1903.	1902.
Baltimore	522	493	Ireland	190	188
Maryland	192	200	Germany	161	141
Virginia	103	100	England	24	19
Pennsylvania	47	52	Scotland	9	18
New York	36	48	Austria	14	10
Massachusetts	10	17	Russia	13	6
District of Columbia	11	16	Italy	5	0
North Carolina	15	11	West Indies	5	3
South Carolina	9	7	Wales	2	2
New Jersey	14	16	France	4	4
Ohio	7	8	At Sea	1	0
Delaware	6	6	Canada	3	5
Connecticut	6	3	Denmark	3	1
Georgia	8	4	Poland	9	21
Illinois	5	2	Sweden	3	0
West Virginia	5	8	Bohemia	1	4
Kentucky	5	2	Finland	1	0
Alabama	1	0	China	2	1
South Dakota	1	0	Greece	1	1
Rhode Island	3	2	Switzerland	5	5
Vermont	2	0	Cuba	0	2
Wisconsin	1	0	Hungary	0	2
Missouri	3	3	Island St. Helena	0	1
Maine	2	3	Belgium	1	1
Texas	2	3	Norway	0	1
Tennessee	1	2	Sicily	0	1
Louisiana	0	2	Africa	0	1
Mississippi	0	1	Brazil	0	1
Indiana	0	3	Asia Minor	0	1
Michigan	0	1			
Florida	0	1			
Iowa	0	1			
Kansas	0	1			
California	0	0			
Indian Territory	1	0			
Unknown	4	6			
Bayview Asylum	2	5			
	1,024	1,027		457	440

	1903	1902
Total natives	1,024	1,027
Total foreigners	457	440
Totals	1,481	1,467

TABLE C.

Showing the Ages of Persons Admitted to the Almshouse, from January 1, 1903, to December 31, 1903, and a comparison with 1902.

	1903	1902
Under 1 year	2	1
From 1 year to 10 years	1	1
From 10 years to 20 years	36	44
From 20 years to 30 years	151	177
From 30 years to 40 years	236	222
From 40 years to 50 years	293	304
From 50 years to 60 years	318	314
From 60 years to 70 years	285	279
From 70 years to 80 years	123	93
From 80 years to 90 years	30	22
From 90 years to 100 years	4	5
From 100 years to 103 years	....	....
Unknown	....	....
Born in Almshouse	2	5
Total	1,481	1,467

TABLE D.

Showing the Period of Residence in the City of all Persons Admitted to the Almshouse, from January 1, 1903, to December 31, 1903, and a comparison with 1902.

	1903	1902
Born in Baltimore	522	496
Less than one week	51	61
One week and less than one month	41	31
One month and less than three months	35	35
Three months and less than six months	30	18
Six months and less than twelve months	26	11
One year and less than two years	29	28
Two years and over	742	765
Unknown	3	17
Born in Almshouse	2	5
Total	1,481	1,467

TABLE F.

Showing the Number of Persons Committed to the Almshouse by Magistrates, and Their Sex, Color and Period of Commitment, From January 1, 1903, to December 31, 1903, and a Comparison with 1902.

1903.	Sex.				Totals.	Period of Confinement.					
	White Males.	White Females.	Colored Males.	Colored Females.		One Month.	Two Months.	Three Months.	Six Months.	One Year.	Totals.
January	10	2	1	0	13	1	10	1	1	0	13
February	10	3	3	1	17	1	15	1	0	0	17
March	11	1	3	0	15	2	12	0	1	0	15
April	7	4	2	0	13	2	11	0	0	0	13
May	9	4	0	0	13	2	9	0	2	0	14
June	9	4	0	1	14	1	9	1	1	2	14
July	9	3	1	0	13	0	13	0	0	0	13
August	7	4	1	3	15	1	10	0	2	2	15
September	5	6	1	0	12	2	6	0	4	0	12
October	7	3	1	1	12	0	8	0	4	0	12
November	5	3	1	1	10	0	9	0	1	0	10
December	18	4	1	0	23	0	16	0	4	3	23
Totals, 1903	107	41	15	7	170	12	128	3	20	7	170
Totals, 1902	75	21	13	3	112	7	83	2	15	5	112

Supplement to Table F.

Showing the Ages of Persons Committed to the Almshouse by Magistrates, From January 1, 1903, to December 31, 1903.

1903.	White Males.	White Females.	Colored Males.	Colored Females.	Totals.
From 16 years to 20 years	1	1	0	1	3
From 20 years to 30 years	13	5	6	3	27
From 30 years to 40 years	12	8	0	2	22
From 40 years to 50 years	17	6	2	1	26
From 50 years to 60 years	22	5	4	0	31
From 60 years to 70 years	32	8	3	0	43
From 70 years to 80 years	10	7	0	0	17
From 80 years to 90 years	0	1	0	0	1
Totals	107	41	15	7	170

Supplement to Table F.

Showing the Number of Times Persons Were Committed to the Almshouse by Magistrates, during the Year 1903.

	Committed 1 time.	Committed 2 times.	Committed 3 times	Committed 4 times.
White males	86	7	2	.....
White females	34	2	.....	1
Colored males	13	1	.....	.....
Colored females	4	.....	1	.....
Totals	137	10	3	1

TABLE G.

Showing the Birthplace of Persons Committed to the Almshouse as Vagrants, etc., by Magistrates and Criminal Court, from January 1, 1903, to December 31, 1903, and a Comparison with 1902.

NATIVES.	1903.	1902.	FOREIGNERS.	1903.	1902.
Baltimore	69	36	Ireland	25	16
Maryland	19	13	Germany	16	11
Virginia	9	7	England	3	2
Pennsylvania	7	5	Denmark	1	.....
New York	4	8	Finland	1	.....
District of Columbia	1	.....	Bohemia	.....	1
Georgia	1	.....	Poland	.....	3
Ohio	1	1	Scotland	.....	1
South Carolina	2	.....	Sweden	1	1
Illinois	2	2			
New Jersey	5	1			
Indiana	.....	1			
West Virginia	.....	1			
Connecticut	1	.....			
Massachusetts	.....	1			
Unknown	.....	1			
Missouri	1	.....	Totals	47	35
Rhode Island	1	.....	Natives	123	77
Totals	123	77		170	112

TABLE H.

Showing What Are Believed to be the Habits of Persons Admitted to the Almshouse, from January 1, 1903, to December 31, 1903, and a Comparison With 1902.

	1903	1902
Intemperate Adults	1,037	1,040
Temperate Adults	405	388
Children of Temperate Parents	16	15
Unknown	23	24
Totals	1,481	1,467

TABLE I.

Showing the Number of Births and Deaths in each Month, and the Sex and Color, from January 1, 1903, to December 31, 1903, and a Comparison with 1902.

1903.	Births.					Deaths.				Deaths Child'rn.		
	White Males.	White Females.	Colored Males.	Colored Females.	Totals.	White Males.	White Females.	Colored Males.	Colored Females.	White.	Colored.	Totals.
January	1	1	.....	.....	2	14	5	10	4	.....	.....	33
February	.....	.....	.....	.....	.....	17	1	8	5	.....	.....	31
March	.....	.....	.....	.....	.....	13	9	10	9	.....	.....	41
April	.....	.....	.....	.....	.....	11	3	6	4	.....	1	25
May	.....	.....	.....	.....	.....	8	3	5	8	.....	3	27
June	.....	.....	.....	.....	.....	14	4	4	5	2	1	30
July	.....	.....	.....	.....	.....	13	7	4	4	.....	2	30
August	.....	.....	.....	.....	.....	3	4	5	6	.....	.....	18
September	.....	.....	.....	.....	.....	8	3	1	6	.....	.....	18
October	.....	.....	.....	.....	.....	16	5	3	7	.....	.....	31
November	.....	.....	.....	.....	.....	10	5	6	7	.....	.....	28
December	.....	.....	.....	.....	.....	12	4	4	6	.....	1	27
Totals 1903	1	1	.....	.....	2	139	53	66	71	2	8	339
Totals 1902	1	3	.....	1	5	143	54	60	58	3	8	326

Supplement to Table I.

Showing the Ages of Persons who Died in the Almshouse, from January 1, 1903, to December 31, 1903.

	1903
Less than 1 year	.....
From 10 years to 20 years	15
From 20 years to 30 years	40
From 30 years to 40 years	47
From 40 years to 50 years	56
From 50 years to 60 years	55
From 60 years to 70 years	61
From 70 years to 80 years	41
From 80 years to 90 years	21
From 90 years to 100 years	2
From 100 years to 103 years	1
Total	339

BAYVIEW ASYLUM

INSANE DEPARTMENT

STATISTICS OF THE INSANE

TABLE A.

General Statement for the Year Ending December 31st, 1903.

	White Male.	White Female.	Colored Male.	Colored Female.	Totals.
Number of patients in Hospital, December 31, 1902	66	137	56	106	365
Number of patients admitted from Baltimore	86	61	29	26	202
Number of patients admitted by birth	1	1	.....	.....	2
Number of patients transferred from Almshouse	8	10	2	5	25
Total number under treatment	161	209	87	137	594
Number of patients discharged	40	24	4	17	85
Number of patients transferred to Springfield	18	22	.....	.....	40
Number of patients transferred to Almshouse	11	7	.....	4	22
Number of patients died	14	13	10	9	46
Total egress during the year	83	66	14	30	193
Remaining in Hospital, December 31, 1903.	78	143	73	107	401
Received twice during the year	3	1	.....	.....	4

TABLE B.

Showing Time of Treatment of Those Discharged or Transferred.

	White Male.	White Female.	Colored Male.	Colored Female.	Totals.
One month or less	20	6	1	.....	27
Between 1 and 2 months	16	14	2	3	35
Between 3 and 6 months	9	3	.....	4	16
Between 6 and 12 months	9	12	1	8	30
Between 1 and 2 years	9	7	.....	1	17
Between 2 and 5 years	5	1	.....	5	11
Between 6 and 8 years	.....	2	.....	.....	2
Between 9 and 12 years	.....	2	.....	.....	2
Between 13 and 15 years	.....	2	.....	.....	2
Between 16 and 19 years	1	4	.....	.....	5
Totals	69	53	4	21	147

TABLE C.

Showing Monthly Admissions, Discharges, Transfers, Deaths and Number of Patients.

	Admitted.	Discharged.	Transferred.	Died.	Number of patients at the end of each month.
January	15	4	41	.....	335
February	17	3	2	3	344
March	25	6	.....	9	354
April	18	6	.....	5	361
May	10	5	2	3	361
June	17	8	3	3	364
July	23	9	1	1	376
August	23	9	3	3	384
September	12	7	2	1	386
October	27	7	5	5	396
November	19	9	1	9	396
December	23	12	2	4	401
Totals	229	85	62	46	.....

Average number of patients during the year, 371½.
Highest number of patients December 30th, 402.
Lowest number of patients January 1st, 324.

TABLE D.

Showing Nativity of Patients Admitted During the Year.

Baltimore	83	Canada	1
Maryland	36	China	1
Connecticut	1	England	1
New York	3	Ireland	8
New Jersey	1	Germany	28
Pennsylvania	8	Russia	11
Delaware	2	Poland	1
Virginia	25	Hungary	1
North Carolina	51	Saxony	1
Tennessee	1	Switzerland	1
Washington, D. C.	2	Italy	1
Austria	6	Unknown	4
Bohemia	1		
Total			229

TABLE E.

Showing Occupation of Those Admitted During the Year.

Baker	2	Letter Carrier	1
Bricklayer	1	Lewd	2
Butcher	3	Merchant	1
Boxmaker	2	Millhand	1
Barber	2	Midwife	1
Brewer	2	Milliner	1
Carpenter	7	Music Teacher	1
Cabinet Maker	1	Mate of Vessel	1
Cook	2	Moulder	3
Clerk	3	Nurse	1
Cigarmaker	1	None	12
Coach Trimmer	1	Physician	2
Domestic	43	Piano Tuner	1
Dressmaker	1	Painter	2
Fish Dealer	1	Printer	1
Fisherman	1	Peddler	5
Fireman	1	Real Estate Agent	1
Farmer	1	Saloon Keeper	2
Grain Measurer	1	Saleswoman	1
Glass Worker	1	Salesman	2
Housewife	17	Shoemaker	3
Housekeeper	12	Stone Cutter	1
Harnessmaker	3	Stable Foreman	1
Horseshoer	1	Seamstress	3
Hostler	1	Stevedore	2
Hair Curler	1	Tailor	7
Junk Dealer	1	Tailoress	1
Laborer	40	Teamster	1
Laundress	9	Varnisher	1
Laundryman	1	Waiter	4
Total			229

TABLE F.

Showing Mental Condition of Those Admitted During the Year.

Mania, Chronic	1	Alcoholic Insanity	19
Mania, Adolescent	1	Alcoholic Insanity, Chronic	10
Mania, Epileptic	1	Confusional Insanity	1
Mania, Nephritic	1	Delusional Insanity	3
Mania, Recurrent	4	Delusional Insanity, Chronic	2
Mania, Transient	1	Climacteric Insanity	5
Melancholia, Chronic	1	Exhaustive Insanity	1
Melancholia, Adolescent	1	Epileptic Insanity	4
Melancholia, Agitans	1	Nephritic Insanity	1
Melancholia, Recurrent	1	Puerperal Insanity	1
Melancholia, Simple	1	Periodical Insanity	5
Melancholia, Senile	3	Recurrent Insanity	6
Melancholia, Stuporus	1	Syphilitic Insanity	4
Dementia, Alcoholic	11	Toxic Insanity	5
Dementia, Climacteric	1	Imbecility	21
Dementia, Epileptic	4	Imbecility, with Excitement	7
Dementia, Senile	27	Imbecility, with Alcoholism	2
Dementia, Pre senile	8	Imbecility, with Epilepsy	2
Dementia, Paralytica	1	Idiocy	3
Dementia, Syphilitic	9	Paranoia	8
Dementia, Terminal	11	General Paresis	8
Dementia, Traumatic	2	Locomotor Ataxia, Cum Dementia	1
Catatonia	1	Not Insane (2 births)	2
Hemiplegia, with Cerebral Softening	1		
Adolescent Insanity	14	Total	229

TABLE G.

Showing Time of Treatment of Those who Died During the Year.

	White Male.	White Female.	Colored Male.	Colored Female.	Totals.
One month or less	3	3	.....	1	7
Between 1 and 2 months	3	2	2	1	8
Between 3 and 6 months	5	3	1	.....	9
Between 6 and 12 months	1	2	3	1	7
Between 1 and 2 years	.....	.....	.....	.....	.....
Between 2 and 4 years	2	1	1	3	7
Between 6 and 8 years	.....	.....	1	2	3
Between 9 and 12 years	.....	.....	2	1	3
Between 16 and 19 years	.....	2	.....	.....	2
Totals	14	13	10	9	46

TABLE H.

Showing Cause of Death of Those who Died During the Year.

Apoplexy	1	Nephritis, Acute	1
Acute Dilatation of Heart	2	Nephritis, Ac'te Hemorrhagic	1
Bronchitis, Acute	1	Nephritis, Interstitial	2
Bronchitis, Chronic	1	Nephritis, Parenchymatous	1
Cerebral Softening	3	Pyemia	1
Cerebral Oedema	2	Pneumonia, Broncho	1
Cellulitis of Forearm and Hand	1	Phthisis Pulmonalis	11
Cellulitis of Leg	1	Pulmonary Oedema	4
Dementia, Paralytica	1	Peritonitis—Tubercular	1
Dementia, Senile	1	Senile Marasmus	1
General Miliary Tuberculosis	1	Syphilitic Meningitis	2
General Paresis	1	Status Epilepticus	1
Gumma of the Brain	1	Suicide by Hanging	1
Meningitis, Chronic	1	Total	46

TABLE I.

Showing Mental Disorder of Those who Died During the Year.

Mania, acute	1
Mania, chronic	3
Mania, epileptic	1
Mania, Nephritic	1
Dementia, alcoholic	3
Dementia, terminal	4
Dementia, senile	12
Dementia, syphilitic	5
Adolescent Insanity	2
Alcoholic Insanity	1
Alcoholic Insanity, chronic	2
Delusional Insanity, chronic	1
Epileptic Insanity	1
Toxic Insanity	1
Catatonia Insanity	1
Hemiplegia, with cerebral softening	1
Imbecility	4
General Paresis	1
Paranoia	1
Total	46

TABLE J.

Showing Mental Disorders and Condition of Those Discharged or Transferred During the Year.

	Recovered.	Improved.	Unimproved.	Total.
Mania, acute	1	.....	1	2
Mania, chronic	.....	.....	3	3
Mania, epileptic	1	1	.....	2
Mania, mono	.....	1	.....	1
Mania, recurrent	1	1	.....	2
Mania, transient	1	.....	.....	1
Melancholia	.....	.....	1	1
Melancholia, acute	.....	.....	2	2
Melancholia, chronic	.....	1	.....	1
Melancholia, adolescent	.....	.....	1	1
Melancholia, recurrent	.....	.....	1	1
Dementia, alcoholic	.....	.....	1	1
Dementia, pre-senile	.....	1	1	2
Dementia, senile	.....	5	10	15
Dementia, syphilitic	.....	1	2	3
Dementia, terminal	.....	1	7	8
Dementia, paralytica	.....	.....	1	1
Alcoholic Insanity	9	2	1	12
Alcoholic Insanity, chronic	6	6	4	16
Adolescent Insanity	4	2	2	8
Delusional Insanity, chronic	.....	2	3	5
Epileptic Insanity	.....	4	.....	4
Exhaustion Insanity	1	.....	.....	1
Climacteric Insanity	2	4	2	8
Nephritic Insanity	.....	1	.....	1
Puerperal Insanity	.....	1	.....	1
Post Febrile Insanity	.....	.....	1	1
Periodical Insanity	3	2	2	7
Recurrent Insanity	1	1	.....	2
Syphilitic Insanity	.....	1	.....	1
Toxic Insanity	2	1	.....	3
Imbecility	.....	3	6	9
Imbecility, with excitement	1	4	.....	5
Idiocy	.....	.....	2	2
General Paresis	.....	.....	2	2
Paranoia	.....	2	7	9
Unclassified	.....	.....	1	1
Not insane (2 births)	2	.....	.....	2
Totals	35	48	64	147

BAYVIEW ASYLUM

HOSPITAL DEPARTMENT.

STATISTICS OF DISEASES.

BAYVIEW HOSPITAL DEPARTMENT.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
GENERAL DISEASES.						
Alcoholism	115	107	.....	.....	1	7
Anæmia, pernicious	1	.....	.....	.....	1	.....
Anæmia, secondary	12	9	.....	.....	.....	3
Cocaine habit	1	.....	.....	1	.....	.....
Diabetes mellitis	1	.....	1	.....	.....	.....
Delirium tremens	5	4	.....	.....	1	.....
Opium habit	7	.....	6	1	.....	.....
Senility	49	.....	17	.....	10	22
FEVERS.						
Influenza	20	18	.....	.....	.....	2
Malaria, æstivo-autumnal	4	4	.....	.....	.....	.....
Malaria, tertian	9	9	.....	.....	.....	.....
Malaria, quotidian	3	3	.....	.....	.....	.....
Rheumatism, acute	11	11	.....	.....	.....	.....
Rheumatism, chronic	97	.....	66	26	.....	5
Rheumatism, gonorrheal	25	.....	25	.....	.....	.....
Rheumatoid arthritis	8	.....	8	.....	.....	.....
Tuberculosis, general	20	.....	.....	.....	20	.....
Variola	1	.....	.....	1	.....	.....
Unclassified	.....	.....	14	.....	.....	.....
DIGESTIVE DISEASES.						
Achylia-gastrica	1	.....	1	.....	.....	.....
Anchylostoma duodenale	1	1	.....	.....	.....	.....
Balantidium coli	1	1	.....	.....	.....	.....
Cercomonas intestinalis	4	4	.....	.....	.....	.....
Constipation, chronic	83	.....	73	10	.....	.....
Diarrhœa, acute	7	7	.....	.....	.....	.....
Diarrhoea, chronic	2	.....	2	.....	.....	.....
Diarrhoea, tubercular	4	.....	4	.....	.....	.....
Duodentis, acute	4	2	2	.....	.....	.....
Dysentery, chronic	21	.....	21	.....	.....	.....
Dysentery, amœbic	5	.....	5	.....	.....	.....
Fœcal impaction	2	2	.....	.....	.....	.....
Gastritis, acute	8	3	5	.....	.....	.....
Gastritis, chronic	21	.....	15	3	.....	3
Gastrectasis	6	.....	4	1	.....	1
Intestinal intoxication	7	7	.....	.....	.....	.....

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
DIGESTIVE DISEASES—Continued.						
Liver, cerrhosis of	2	.....	.....	1	.....	1
Splanchnoptossis	2	.....	.....	1	.....	1
Stomatitis	9	9	.....	.....	.....	.....
DISEASES OF HEART AND CIRCULATION.						
Aneurism aorta	7	.....	.....	7	.....	.....
Aneurism innominate	2	.....	.....	1	.....	1
Aneurism subclavian	1	.....	.....	1	.....	.....
Aortic regurgitation	32	.....	21	.....	7	4
Arterio sclerosis	62	.....	45	12	2	3
Aortic stenosis	1	.....	.....	1	.....	.....
Cardiac dilatation	18	.....	11	.....	7	.....
Endocarditis, acute	1	1	.....	.....	.....	.....
Endocarditis, septic	2	.....	.....	.....	2	.....
Mitral regurgitation	66	.....	46	7	4	9
Mitral stenosis	1	.....	.....	1	.....	.....
Myocarditis, chronic	9	.....	6	3	.....	.....
Pericarditis, acute	1	1	.....	.....	.....	.....
Pericarditis, adherent	3	.....	....	.....	3	.....
DISEASES OF KIDNEY.						
Hydronephrosis	1	.....	.....	.....	1	.....
Nephritis, acute	2	2	.....	.....	.....	.....
Nephritis, chronic interstitial	92	.....	34	7	43	8
Nephritis, chronic parenchymatous	3	....	2	.....	1	.....
Pyelonephritis	1	.....	.....	.....	1	.....
Uremic coma	2	.....	.....	.....	2	.....
RESPIRATORY DISEASES.						
Asthma, bronchial	7	....	5	.....	.....	2
Bronchitis, acute	11	10	.....	.....	.....	1
Bronchitis, chronic	58	.....	43	15	.....	.....
Emphysema	12	.....	7	5	.....	.....
Gangrene of lung	2	.....	.....	.....	2	.....
Hydrothorax	5	.....	1	.....	4	.....
Phthisis, fibroid	10	.....	4	1	1	4
Phthisis, pulmonalis incipiens	3	1	2	.....	.....	.....
Phthisis, pulmonalis	273	.....	81	38	105	49

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
RESPIRATORY DISEASES—Continued.						
Pleuritis, acute	5	.....	4	1	.....	.....
Pleuritis, chronic	1	.....	.....	1	.....	.....
Pleurisy, with effusion	16	16	.....	.....	.....	.....
Pneumonia, broncho	4	3	.....	.....	1	.....
Pneumonia, hypostatic	2	.....	.....	.....	2	.....
Pneumonia, lobar	11	7	.....	.....	3	1
Pneumonia, lobar double	2	1	.....	.....	1	.....
Pneumonia, tubercular	4	.....	2	.....	2	.....
Pulmonary odema	4	.....	.....	.....	4	.....
NERVOUS DISEASES.						
Neuritis, multiple	5	.....	2	.....	.....	3
Neuritis, traumatic	1	.....	.....	1	.....	.....
Paralysis, agitans	1	.....	.....	1	.....	.....
Paralysis, circumflex	1	.....	.....	.....	.....	1
Paralysis, infantile	2	.....	.....	.....	.....	2
Paralysis, motores oculorum	1	.....	.....	.....	.....	1
Paralysis, musculo cutaneous	1	.....	.....	.....	.....	1
Paralysis, musculo spiral	2	.....	.....	.....	.....	2
Paranoria	2	.....	.....	2	.....	.....
Paraplegia, spastic	1	.....	.....	.....	.....	1
Sciatica	8	.....	6	2	.....	.....
Sclerosis, lateral	5	.....	.....	3	.....	2
Syphilis, cerebral	2	.....	.....	1	1	.....
Syphilis, cerebro spinal	6	.....	1	2	.....	3
Tabies dorsalis	7	.....	.....	2	2	3
Torticollis	6	6	.....	.....	.....	.....
Tremor, senile	10	.....	.....	9	.....	1
Athetosis	1	.....	.....	1	.....	.....
Aphasia	5	.....	3	.....	.....	2
Chorea	2	.....	1	.....	.....	1
Cerebromalacia	1	.....	.....	....	1	.....
Dementia, senile	24	.....	4	12	2	6
Embolism, cerebral	3	.....	.....	.....	3	.....
Epilepsy	46	.....	.....	16	.....	30
Gumma of brain	1	.....	.....	.....	1	.....
Hemiplegia	72	.....	21	1	17	33
Hysteria	4	.....	4	.....	.....	.....
Idiocy	21	.....	.....	.....	.....	21
Imbecility	7	.....	.....	7	.....	.....

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
NERVOUS DISEASES—Continued.						
Insanity, adolescent	4	.....	.....	4	.....	.....
Insanity, post epileptic	2	.....	2	.....	.....	.....
Insanity, post monapauze	2	.....	.....	1	.....	1
Insanity, puerpural	3	.....	3	.....	.....	.....
Lumbago	8	8	.....	.....	.....	.....
Meningitis, syphilitic	1	.....	1	.....	.....	.....
Meningitis, tubercular	4	.....	.....	.....	4	.....
Meningitis, terminal	1	.....	.....	.....	1	.....
Myelitis	10	.....	.....	5	3	2
Neuralgia	10	7	3	.....	.....	.....
Neurasthenia	6	.. ..	5	.....	.....	1
Neuritis, arsenical	1	.....	1	.....	.....	.....
Neuritis, alcohol	3	.....	2	.....	.....	1
Neuritis, lead	4	.....	4	.....	.....	.....
DISEASES OF EYE.						
Amblyopia, tobacco	2	.....	2	.....	.....	.....
Cataract	13	5	1	7	.....	.....
Cataract, traumatic	1	.....	.....	1	.....	.....
Choroidal, atrophy	1	.....	.....	1	.....	.....
Choroiditis, disseminated	1	.....	.....	1	.....	.....
Conjunctivitis, catarrhal	24	24	.....	.....	.....	.....
Conjunctivitis, muco-purulent	4	4	.....	.....	.....	.....
Corneal ulcer	7	7	.....	.....	....	.....
Ectropion	5	1	.....	4	.....	.....
Glaucoma, acute	1	1	.....	.....	.....	.....
Glaucoma, chronic	1	.....	.....	1	.....	.....
Iritis, syphilitic	4	3	.....	.....	.....	1
Iritis, plastic	1	.....	.....	1	.....	.....
Keratitis, interstital	6	4	.....	.....	.....	2
Leucoma, cornea	1	. ..	.....	1	.....	.....
Optic atrophy	13	.....	.....	13	.....	.....
Optic neuritis	2	.....	1	1	.....	.....
Pterigium	4	.....	.....	.....	.....	4
Retinæ, detached	1	.....	.....	1	.....	.....
Retinæ, senile degeneration of	1	.....	.....	1	.....	.....
Retinitis pigmentona	1	.....	.....	.....	.....	1
Trachoma	1	.....	.....	.....	.....	1
Traumatic, degeneration of lens	1	.....	.....	1	.....	.....
Vitreous opacetier	1	.....	.....	1	.....	.....

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
DISEASES OF WOMEN.						
Cervix, laceration of	1	1				
Dysmenorrhea	3	3				
Endocervictis	4	4				
Endometritis	1	1				
Ovary prolapsed	1			1		
Uterus, retroflexion	2		2			
Uterus, procidentia	1		1			
Vaginitis, gonorrheal	5	5				
Vaginitis, simple	3	3				
OBSTETRICS.						
Normal labor, mother and child well	2	2				
*Premature delivery	1	1				
Abortion	1	1				
DISEASES OF SKIN.						
Acne rosacea	3		3			
Acne vulgaris	5	5				
Dermatitis	4	4				
Dermatitis, blastomycetic	1		1			
Eczema, acute	3	3				
Eczema, chronic	4		4			
Eczema, erythematous	2	2				
Erythema, multiforme	1	1				
Fibroma, multible	1					1
Impetigo contagiosa	1	1				
Lupus	1					1
Pediculosis capitis	9	9				
Pediculosis corporis	13	13				
Pediculosis pubes	3	3				
Pityriasis rubia	1	1				
Scabies	7	5				2
Telangiectasis	1					1
Urticaria	14	14				
Psoriasis	4	4				

*Mother well, child born dead.

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
DISEASES OF THROAT.						
Coryza	3	3	.....	.....	.....	.....
Epistaxis	3	3	.....	.....	.....	.....
Cleft palate	4	.....	.....	4	.....	.....
Laryngitis, acute	4	4	.....	.....	.....	.....
Laryngitis, syphilitic	3	.....	2	.....	.....	1
Laryngitis, tubercular	5	.....	.....	4	1	.....
Tonsillitis, acute	7	7	.....	.....	.....	.....
Tonsillitis, follicular	8	5	3	.....	.....	.....
DISEASES OF EAR.						
Cerumen impacted	7	7	.....	.....	.....	.....
Furuncle ext. canal	1	1	.....	.....	.....	.....
Mastoiditis, acute	1	1	.....	.....	.....	.....
Otitis media, chronic	5	.....	5	.....	.....	.....
Otitis media, externa acute	1	1	.....	.....	.....	.....
GENITO-URINARY DISEASES.						
Balanitis	5	5	.....	.....	.....	.....
Chancroid	10	8	.....	.....	.....	2
Cystitis, acute	3	3	.....	.....	.....	.....
Cystitis, chronic	7	.....	6	1	.....	.....
Epididymitis	4	4	.....	.....	.....	.....
Gonorrhœa, acute	1	1	.....	.....	.....	.....
Gonorrhœa, chronic	12	.....	12	.....	.....	.....
Incontinence of Urine	9	.....	1	8	.....	.....
Orchitis	1	1	.....	.....	.....	.....
Prostatitis, acute	3	3	.....	.....	.....	.....
Prostatic hypertrophy	17	.....	.....	6	2	9
Paraphymonis	3	3	.....	.....	.....	.....
Phimosis	5	5	.....	.....	.....	.....
Retention of urine	6	6	.....	.....	.....	.....
Urethral stricture	7	2	3	.....	.....	2
Varicocele	1	1	.....	.....	.....	.....
SURGICAL DISEASES.						
Abscess	20	20	.....	.....	.....	.....
Abscess, perirectal	2	2	.....	.....	.....	.....
Abscess, tubercular	4	4	.....	.....	.....	.....

BAYVIEW HOSPITAL DEPARTMENT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
SURGICAL DISEASES—Continued.						
Adenitis, axilary	2	2	.....	.....	....	.....
Adenitis, inguinal	12	8	1	.....	.....	3
Ankylorsis	6	.....	3	.....	.....	3
Arthritis	1	.....	1	.....	.....	.....
Appendicitis	4	1	3	.....	.....	.....
Burns, superficial	15	15	.....	.....	.....	.....
Burns, deep	3	.....	2	.....	1	.....
Carbuncles	2	1	.....	.....	.....	1
Carcinoma of aesophagus	1	.....	.....	.....	1	.....
Carcinoma of breast	3	1	.....	.....	2	.....
Carcinoma of orbit	1	.....	.....	1	.....	.....
Carcinoma of pancreas	1	.....	.....	.....	1	.....
Carcinoma of stomach	1	.....	.....	.....	1	.....
Carcinoma of rectum	1	.....	.....	.....	1	.....
Carcinoma of tongue	2	.....	.....	2	.....	.....
Carcinoma of uterus	4	.....	.....	1	2	1
Cellulitis	24	24	.....	.....	.....	.....
Cholocystitis	3	3	.....	.....	.....	.....
Coxalgia	1	.....	2	.....	....	.....
Decubitis dorsal	11	7	.....	.....	.....	4
Dislocation of astragulis	1	1	.....	.....	.....	.....
Dislocation of elbow (lateral)	1	.....	.....	1	.....	.....
Dislocation of elbow (forward)	1	1	.....	.....	.....	.....
Dislocation subcorocoid	5	5	...	.....	.....	.....
Empyema	2	.....	.....	.....	2	.....
Epithelioma, lower eyelid	1	1	.....	.....	.....	.....
Epithelioma, penis	2	1	.....	.....	1	.....
Erysipelas	19	19	.....	.....	.....	.....
Fracture of clavicle	1	1	.....	.....	.....	.....
Fracture of femur, compound	1	1	.....	.....	.....	.....
Fracture of femur, neck	5	.....	1	.....	.....	4
Fracture of femur, shaft	1	1	.....	.....	.....	.....
Fracture of femur, shaft, old	3	.....	.....	3	.....	.....
Fracture of fibula	1	1	.....	.....	.....	.....
Fracture of humerus	2	.....	.....	.....	.....	2
Fracture of metacarpal	2	2	.....	.....	.....	.....
Fracture of nasal	1	1	.....	.....	.....	.....
Fracture of phalanges	4	4	.....	.....	.....	.....
Fracture of superior maxila	1	1	.....	.....	.....	.....
Fracture of ulna	1	1	.....	.....	.....	.....
Fistula in ano	4	3	.....	.....	.....	1

BAYVIEW HOSPITAL DEPARTMENT—Continued.

DISEASES.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
SURGICAL DISEASES—Continued.						
Frostbite	9	7	.....	.....	.....	2
Gangrene, frostbite	9	5	.....	.....	3	1
Gangrene, senile	3	2	.....	.....	1	.....
Goitre	2	.....	.....	2	.....	.....
Hemorrhoids	1	1	.....	.....	.....	.....
Hernia, inguinal	8	.....	.....	8	.....	.....
Hernia, femoral	2	.....	.....	2	.....	.....
Hernia, ventral	2	...	.....	2	.....	.....
Hydrocele	3	.....	3	.....	.....	.....
Kidney, movable	6	.....	.....	4	.....	2
Lacerated wounds	21	19	.....	.....	.....	2
Mammary abscess	3	3	.....	.....	.....	.....
Necrosis of nasal bones	2	.....	1	1	.....	.....
Osteomyelitis of tibia	2	.....	1	.....	.....	1
Paronychia	9	9	.....	.....	.....	.....
Sarcoma of parotid	1	.....	.....	.....	1	.....
Septicemia	5	2	.....	.....	3	.....
Sprains	18	14	.....	.....	.....	4
Synovitis, acute	6	6	.....	.....	.....	.....
Synovitis, chronic	3	.....	3	.....	.....	.....
Syphilis, primary	10	.....	7	.....	.....	3
Syphilis, secondary	45	.....	37	.....	.....	8
Syphilis, tertiary	26	.....	20	1	.....	5
Telanguctasis	1	... ...	.....	1	.....	.....
Tuberculosis of astragulus	2	2	.....	.....	.....	.....
Tuberculosis of cervical vertebræ	4	.....	1	.....	2	1
Tuberculosis of humerus	3	.....	1	1	.....	1
Tuberculosis of scophoid	1	1	.....	.....	.....	.....
Tuberculosis of spine	4	.....	.....	.....	.....	4
Tuberculosis of ulna	3	.....	1	1	.....	1
Tuberculosis of metatorsal	2	2	.....	.....	.....	.....
Tuberculosis of os calus	3	1	1	1	.....	.....
Tuberculosis of knee joint	1	1	.....	.....	.....	.....
Tubercular peritonitis	2	.....	.....	1	1	.....
Teno synovitis	1	.....	1	.....	.....	.....
Ulcer, atrophic	6	1	5	.....	.....	.....
Ulcer of bladder	1	.....	1	.....	.....	.....
Ulcer, perforating of foot	2	1	1	.....	.....	.....
Ulcer of palate	6	.....	4	.....	.....	2
Ulcer, syphilitic	18	8	.....	.....	.....	10
Ulcer, traumatic	7	7	.....	.....	.....	.....

BAYVIEW HOSPITAL DEPARTMANT—Continued.

Diseases.	Cases Treated.	Cured.	Improved.	Unimproved.	Died.	In Hospital Dec. 31, 1903.
SURGICAL DISEASES—Continued.						
Ulcer, varicose	14	4	8	.....	.....	2
Varicose veins	5	.....	3	.....	.....	2
Wen	10	10	.....	.....	.....	.....

NUMBER OF DISEASES TREATED IN HOSPITAL.

Cured	711
Improved	791
Unimproved	309
Died	293
In hospital December 31st, 1903	342
Total	2,446

NUMBER OF DISEASES TREATED IN DISPENSARY.

Cured	776
Improved	405
Unimproved	297
Receiving treatment, December 31st, 1903	142
Total	1,620

Number patients treated in hospital	1,618
Number patients treated in dispensary	1,470
	3,088

APPENDIX.

Extracts from Laws of Maryland, 1898, Chapter 123, New Charter of Baltimore City, on Supervisors of City Charities.

104. The Supervisors of City Charities shall be the first sub-department of Charities and Corrections, and the head of this sub-department shall be a board composed of nine persons, appointed by the Mayor as provided in Section 25 of this Article, who shall be removable as therein provided. Their term of office shall be for six years, three of them to retire at the end of every two years; except that the Supervisors first appointed shall determine by lot their terms of office, so as to provide for the termination of the term of three Supervisors each at the end of the first two and four years. The said Supervisors shall have been citizens of Maryland for at least five years, and residents of the City of Baltimore for at least one year prior to their nomination. The Mayor, in the appointment of said Supervisors, shall designate one of their number as President, and the Supervisors shall elect a Secretary, who shall be paid a salary of one thousand five hundred ($1,500) dollars per annum, payable monthly, and shall discharge such duties as the Supervisors shall describe. The said Supervisors shall serve without pay. They shall be appointed by the Mayor from among those whom he deems, by reason of their intelligence, experience and character, to be the most capable of caring for the poor, economically, intelligently and humanely. In the selection of the said Supervisors and in their action in matters relating to the duties imposed upon them by law or ordinance, ecclesiastical or party ties shall not be regarded, so that the care of the poor may be entirely out of the field of political or religious differences and controversies. The duty of said Supervisors shall be to determine what sick, insane or other destitute per-

sons are proper charges on the city, and to provide for the proper care of such persons, in so far as money may be appropriated for that purpose by the city. The Supervisors shall have the power to appoint and fix the compensation of such officials and subordinate employes as they may deem necessary for the proper conduct of the business entrusted to them, not to exceed in number of employes or aggregate amount of compensation the limit fixed by ordinance. The Supervisors shall report annually to the city upon all departments of their work, including the work of those institutions with which the city has contracted for the care of any poor persons, and they shall perform all the duties heretofore performed by the Trustees of the Poor, unless otherwise provided in this Article.

105. All appropriations by the Mayor and City Council of Baltimore for the treatment, care or support of the indigent poor in institutions not owned by the city, or for dispensary treatment, shall be by contract, in which the city shall agree to pay so much per capita for persons placed, treated or prescribed for in such institutions or dispensaries so contracting with the city, and in no case shall a gross sum be paid to any such institution or dispensary. Every such contract shall contain a stipulation that the city shall incur no obligation therefrom for any amount not provided for or in excess of the appropriation made for the fiscal year in carrying out such contract. No public moneys shall be paid to any institution or dispensary for the treatment, care or support of any person until the said Supervisors have determined and certified in writing that such person is a proper subject of municipal aid.

106. No appropriation shall be made or money expended for the maintenance, outside of the almshouse, or other city home, of any adult poor person or persons, except the sick, insane or other special classes requiring special treatment, or homeless persons requiring temporary care only; provided

the city has adequate accommodations at the almshouse or other city home. All poor persons who, in the judgment of said Supervisors, require special care or treatment outside of a city institution, may be placed by said Supervisors in any institution or institutions with which the city has contracted for such care or treatment, which they, in the exercise of their judgment, after careful inspection and inquiry, shall deem best fitted to give the necessary care or treatment.

107. The Mayor and City Council of Baltimore, through the said Supervisors, shall have care and supervision over such children as shall be committed to or placed in those institutions with which the city may have contracted, and as shall have been duly accepted by said Supervisors as proper charges on the city. Said Supervisors shall have power to remove any child from any such institution to which he or she has been committed or placed, and to place said child in any other such institution, when it is apparent to the Supervisors that from improper treatment or for other good cause the welfare of the child requires such removal. No such child shall be discharged from the institution to which he or she shall have been committed or placed (unless by direction of a court of a competent jurisdiction), or be transferred to any other institution or to the care of an individual, without the approval and consent of the said Supervisors. It shall be the duty of the Supervisors, as far as is practicable, to place all destitute or neglected children who are under their care or in their charge in some institution or home for children or without payment of board to some respectable family in the State of Maryland, and to have the children visited and their circumstances carefully examined at least once in every six months by one of the Supervisors or by a skilled agent or agents appointed by them for the purpose. On the preliminary question of the commitment of any destitute or neglected child, said Supervisors, or their agent, shall be summoned by the committing officer and heard as to whether the

parent or guardian of the child to be committed is entitled to the aid of the city, and if on the return of the summons of the said Supervisors, or their agent, further time is required by them or him to make inquiry as to the pecuniary ability of said parent or guardian, further time, not exceeding twenty-four hours, shall be given. The wish and request of the parent or guardian as to the place of commitment shall be respected, unless good cause to the contrary be shown by the Supervisors. The Supervisors of City Charities shall have power to place foundlings in any proper institution with which the city has a contract.

108. The Supervisors may admit into the almshouse and receive under their care, in addition to those paupers which the laws of the State authorize and require, such indigent or distressed persons as in their opinion the dictates of humanity or particular circumstances render proper or necessary. In case of emergency any Supervisor may direct the admission of any destitute, indigent or distressed person to the almshouse.

109. The Supervisors shall prescribe, provide for and direct all matters relating to the support, treatment and employment of all paupers, vagrants and other persons in the almshouse, or any other place under their care and charge.

LAWS OF MARYLAND, 1900, CHAPTER 603.

AN ACT to repeal Sections 1, 3 and 31 of Article 59 of the Code of Public General Laws, title "Lunatics and Insane," and to re-enact the same with amendments.

Lunatics and Insane.

SECTION 1. Be it enacted by the General Assembly of Maryland, That Sections 1, 3 and 31 of Article 59 of the Code of Public General Laws, title "Lunatics and Insane," be and the same are hereby repealed and re-enacted so as to read, respectively, as follows:

Indigent insane; how cared for.

1. When any person is alleged to be a lunatic or insane, and without sufficient means to pay for his or her maintenance at an asylum, and who has no relatives, or relative, or others legally chargeable with his or her support, the County Commissioners of the county in which such person may reside, or the Supervisors of City Charities of the Department of Charities and Corrections of the City of Baltimore (if such person resides in the City of Baltimore) shall, upon the written certificates of two qualified physicians, made in accordance with the provisions of Section 31 of this Article, cause such person to be sent to the almshouse of the county or city to which he belongs, or to a hospital or some other place better suited to his condition, there to be confined at the expense of the county or city until he shall have recovered and be discharged in due course of law; but if demanded by the alleged lunatic or insane person, or any of his relatives or friends, or if requested by the Board of County Commissioners of the county in which the alleged lunatic or insane

person resides, or by the Supervisors of City Charities of the Department of Charities and Corrections of the City of Baltimore, if said person resides therein, the Circuit Court for the county in which said person may reside, or the Criminal Court of Baltimore (if such person resides in the City of Baltimore) shall cause a jury of twelve good and lawful men to be empaneled forthwith, and shall charge the said jury to inquire whether such person is insane or lunatic; and, if found so, it shall be the duty of the County Commissioners or of the Supervisors of City Charities of the Department of Charities and Corrections of Baltimore City to cause such person to be sent to the almshouse of the county or city to which he belongs, or to a hospital, or to some other place better suited to his condition, there to be confined at the expense of the county or city until he shall have recovered and be discharged in due course of law. It shall be the duty of any Board of County Commissioners and the Supervisors of the City Charities of the Department of Charities and Corrections of the City of Baltimore, before whom any such alleged lunatic or insane person is brought for commitment, under this section, if not satisfied that such person is a lunatic or insane, as defined in Section 3 of this Article, to notify the State's Attorney of said county or city, and he shall immediately thereupon bring the said question before the Circuit Court of the said county, or the Criminal Court of Baltimore City, for the determination in accordance with the provisions of this section. Nothing contained in this section shall prevent the friends or relatives of such lunatic or insane

Jury shall investigate cases of insanity, etc.

person from confining him or providing for his comfort.

Insane patients not entitled to benefits of preceding section.

No person shall be deemed entitled to the benefit of the preceding section who shall possess or be entitled to receive sufficient income for his maintenance and support as a patient in any home, retreat or hospital for the insane in this State, or who has relatives or others legally chargeable with the support of the said person who are able to pay for the maintenance and support of the said person as a patient at any home, retreat or hospital for the insane in this State. The County Commissioners of any county or the Supervisors of City Charities of the Department of Charities and Corrections of the City of Baltimore may consent in writing to the commitment in accordance with the provisions of Section 1 of this Article, of any indigent insane person from the respective counties or the city aforesaid not able to pay the whole cost of his maintenance, but who may be able to pay for part thereof, as a reimbursing patient, and designate the rate per week which shall be reimbursed to the county or City of Baltimore, from which said patient is committed; but no person shall be committed as a reimbursing patient who is himself able, or who has relatives or others legally chargeable with the support of said person, who are able to pay the rates for private patients at the State Hospital or any institution, home or retreat for the insane within the State.

Physicians' certificate required, etc.

No person shall be committed to or confined as a patient in any institution, public, corporate or private, or almshouse or other place for the care and custody of the insane and idiotic, ex-

cept upon the written certificates of two qualified physicians of the State of Maryland, made within one week after separate examinations by them of said alleged lunatic, and setting forth the insanity or idiocy of such person and the reason for such opinion. No certificate shall be of force which shall be presented for the commitment of any patient more than thirty days after date of examination. The form of physician's certificate shall be substantially as follows:

Form of certificate.

State of Maryland, County or City of ———, date ———, I, a resident of the County or City of ———, being a graduate of ——— Medical College, and having practised as a physician five years, do hereby certify that on this ——— day of ——— I have personally examined ———, age ——— (sex) ———? (social state), and do verily believe that the said ——— is insane, and that the disease is of a character which, in my opinion, requires that the person shall be placed in a hospital or other establishment where the insane are detained for care and treatment. I further certify that I am not related by blood or marriage to the said ———, nor in any way connected as medical attendant or otherwise with the hospital or other establishment in which it is supposed to place the aforesaid ———, and that this certificate is signed and made within one week of the examination of the patient.

———————, M.D.

Residence, ———————.

This section shall not apply to the cases of voluntary commitments as provided for in Section 37.

Sec. 2. And be it further enacted, That this Act shall take effect from the date of its passage.

Approved April 10, 1900.

ANNUAL REPORT

— OF THE —

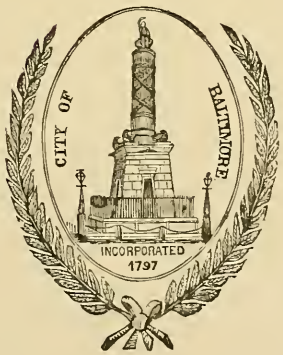
WATER BOARD

— TO THE —

MAYOR AND CITY COUNCIL OF BALTIMORE,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904

REPORT.

To the Honorable
The Mayor and City Council of Baltimore:

GENTLEMEN—In accordance with the requirements of city regulations we herewith submit our report for the year ending December 31, 1903:

APPROPRIATIONS AND EXPENDITURES.

REGULAR APPROPRIATIONS.

Our regular appropriations for 1903 were $85,730.00 for salaries, and $362,700.00 for expenses—for labor and miscellaneous supplies. In addition to the latter amount $4,492.15 was carried over from the unexpended balance of 1902 to apply on uncompleted contracts for Venturi meters and machine shop tools, making the total appropriation for expenses $367,192.15. Our expenditures for the year from these appropriations were $84,157.13 for salaries and $364,757.08 for expenses, leaving unexpended balances of $1,572.87 and $2,435.07 respectively. Besides these expenditures charged directly to our appropriations, $5,737.82 additional was expended by us for new meters, which amount was taken from the receipts for the installation of new metered supplies during the year, as has been done for the last five or six years. The increase of $4,654.23 in our expenditure for salaries was principally due to the fact that there was charged to this account during the year 12½ months' salaries instead of 12 months as heretofore, and to the extra pumping station shift of engineer, fireman and oiler, authorized by the previous Water Board, as a relief to the regular men who had formerly

been compelled to work every day of the week. The increase of $17,867.20 in our general expenses over those of 1902 was due largely to the increase in the cost of coal because of the strike, and also to the increased amount of construction and repair work on mains, services, and metered supplies.

APPROPRIATION FOR NEW IMPROVEMENTS.

In addition to the above appropriation for regular expenses we had an appropriation of $30,596.02 for the erection of the new storehouse at our Gay-street yard, $21,596.02 of which was carried over from the unexpended balance of 1902. We expended from this appropriation $27,809.24, leaving a balance of $2,786.78 unexpended.

APPROPRIATION FROM $4,000,000 LOAN OF 1945.

We also had an appropriation of $69,314.71 from the $4,000,000 Loan of 1945, $2,000,000 of which was for the improvement of the water service—for the dredging of Loch Raven—that amount being the unexpeeded balance of the $2,000,000 remaining on December 31, 1902. Of this amount we expended $26,508.79, leaving an unexpended balance of $42,805.92, which is carried over to 1904 for the continuance of the work.

APPROPRIATION FROM $1,000,000 LOAN OF 1943.

We also had three appropriations for specific purposes from the new $1,000,000 (1943) Loan, authorized in 1902. These appropriations were: $350,000 for a site for a new High Service Reservoir and for such construction work on it as was estimated could be done during the year 1903; $225,000 for the acquisition of the Baltimore County Water and Electric Company's water pipes and rights in the section of the city west of Gwynn's Falls and for the extension of the city mains to that section, and $70,000 for the extension of the Upper Service to supply the highest areas of the city east of Jones' Falls.

For reasons beyond the control of the Water Board, only preliminary action has been taken to carry out the first two of these improvements, and consequently very little was expended from these appropriations.

Of the $350,000 appropriated for a new reservoir only $141.90 was expended, and of the $225,000 appropriated for the extension of the city water service west of Gwynn's Falls only $673.09 was expended, these amounts being for borings, tests and tools, expert accountants' services and report, etc. Of the $70,000 appropriated for extension of the Upper Service $33,902.40 has been expended. The unexpended balance of the $225,000 and $70,000 appropriations, $224,326.91 and $36,097.60, have been carried over to 1904, the unexpended balance of the $350,000 appropriation not being carried over because of litigation with relation to the reservoir site chosen by the Commission.

RECEIPTS AND SURPLUS.

The total receipts from all sources credited to the water service—water rents, plumbing bills, service connections, sales of old materials, etc.—were $867,326.18, including $28.14 for wages returned and $4,492.15 carried forward from the surplus of 1902, leaving actual receipts of $862,805.89.

The expenses of this Department and the Collector of Water Rents Department are provided for entirely from the Department receipts from the above sources. The receipts up to the year 1902 were always more than sufficient to cover the expenses of the two departments.

This year, notwithstanding the very commendable and strenuous efforts of the Collector of Water Rents to force collections, the receipts did not quite come up to the total appropriation for the expenses of the two departments, which was $867,541.00. The falling off in receipts was due entirely to the reduction in flat water rates made by the ordinance which went into effect January 1, 1902, as the receipts from metered

properties showed an increase of about $12,000 over those of the previous year. That this reduction did not cause a deficiency in 1902 was due to the fact that the 1901 delinquent rents collected in 1902 were paid at the old higher rate, and to the fact that by action of the Board of Estimates the expense of dredging Loch Raven was charged to the Loan of 1945 instead of to the Department receipts.

Towards the end of the year, when we were first notified as to the possibility of a shortage of receipts, we made every effort to economize and keep expenses down. On account of our not receiving this notification until November, we were unable to make any considerable reduction in our expenses, and every dollar of the total receipts of $867,326.18 was expended, leaving no surplus to be turned over to the Finance Commissioners.

PROGRESS ON LOAN IMPROVEMENTS.

THE NEW HIGH-SERVICE RESERVOIR.

The One Million 1943 Loan was authorized primarily and principally for the construction of this imperatively necessary improvement. The Commission named in the Ordinance of Estimates for 1903 for the selection of a site for the reservoir organized in December, 1902, and for several months thereafter made a most thorough and exhaustive examination of all of the available sites.

A site was chosen by the majority of the Commission and a contract signed for its transfer to the city. Subsequently, however, on account of the cost of the site and other objections, an ordinance was passed by the City Council repealing the clause in the Ordinance of Estimates providing for the reservoir. Consequently the site chosen was not purchased, and we are apparently no nearer to beginning work on this much desired improvement than we were over a year ago, after the loan was first authorized. This reservoir was recom-

mended over seven years ago as an immediate necessity. Our present high service reservoir capacity is far from sufficient to provide for such emergencies as might arise, and every year of delay makes the condition much worse, as our high service consumption is increasing very rapidly.

In our estimates for 1904 appropriations we again included $350,000 for a new reservoir, and explained to the Board of Estimates the imperative necessity of our having the reservoir in service as soon as possible. On account of the possibility of litigation against the city in relation to the reservoir site previously mentioned, it was deemed advisable by the Board of Estimates not to include a provision for the reservoir in the 1904 Ordinance of Estimates. We feel it our duty to again call the attention of your Honorable Body to the absolute necessity of our having this reservoir built and in service as soon as possible, and to warn you that serious and dangerous conditions will certainly result from the failure to provide a sufficient high service reservoir storage capacity for all emergencies.

THE EXTENSION OF THE CITY WATER SERVICE TO THE CITY TERRITORY WEST OF GWYNN'S FALLS.

This is another improvement that the One Million 1943 Loan was authorized to provide for. An appropriation of $225,000 for this purpose was included, at our request, in the Ordinance of Estimates for 1903. The territory mentioned is now supplied by the Baltimore County Water and Electric Company. The City Charter provides, that before we can extend the city water service to that section we must first buy the company's water mains there and also compensate them for their loss of revenue from that section; also, that in case the city and company fail to agree upon a value for these holdings, the matter is to be referred to a board of three arbitrators, one to be appointed by the city, one by the company, and the two to appoint a third. Unfortunately, the clause in the Ordinance of Estimates for 1903, which made the appro-

priation, did not authorize any official, board or commission to negotiate with the company on behalf of the city. However, the Water Board, being impressed with the urgency of this improvement, took up the matter as early as possible in the year to see what could be done. The Board decided to first ask the company to put a value on its property, and then, if the company would consent, to have an expert examination made of their books and plans, from which we could make an estimate of the value of their holdings, and to then negotiate with the company to see if we could agree with them on a price that could be embodied in an ordinance to be introduced before the City Council, the ordinance to authorize the Water Board, or some other municipal body, to negotiate with the company and acquire their holdings at the agreed price. Another reason for the Board's deciding to take this action was to expedite the matter by bringing it up to arbitration as soon as possible, if it should be obvious that the Board and the company could not agree as to the amount to be paid to the company. The Water Company, in response to the Water Board's request, offered to sell its mains and rights in the district under consideration for $300,000, and presented elaborate detailed statements and plats to justify that valuation. The Water Board then employed Mr. Max Teichman, C.P.A., to make an expert examination of the company's books. He reported to the Board in July that the value of the company's mains and capitalized net earnings on a 4 per cent. basis was $165,413.05, to which should be added the value of the franchise. The Water Board, on the strength of this report, believed the price of $300,000 asked by the company to be excessive, and submitted to the City Solicitor a list of questions involving the points in dispute with the company as to the valuation. The City Solicitor's opinion sustained the position of the Board in the matter, and, as the company would not recede from their price, the negotiations fell through. All of these negotiations were under the previous Water Board, whose term of office expired on Sep-

tember 30. We have reviewed the whole matter and endorsed the former Board's position. Consequently there is nothing more that we can do under present conditions to secure for the residents and taxpayers of the district under consideration the advantages of the city water supply, which they should have. Any further action in the matter must be taken by the City Council, either by the appointment of a special commission to go over the ground already covered by the Water Board, or to put the matter up to arbitration at once by passing an ordinance appointing an arbitrator on the part of the city. This section of the city must have city water sooner or later, and the longer it is put off the more it will cost the city to acquire the holdings of the Water Company there. We, therefore, respectfully advise your Honorable Body to take immediate action in this matter.

THE EXTENSION OF THE UPPER SERVICE EAST OF JONES' FALLS.

This improvement was also provided for in the One Million 1943 Loan. Our appropriations for the year included one of $70,000 for this extension. Early in the year we started to prepare definite plans for the work. It was determined to run a force main from the Western Pumping Station to a standpipe to be built on the high ground on Roland avenue, near the northern city limits, then to cut off from the high service the distributing mains in all of that section having an elevation of over 250 feet above mean tide and connect these mains to the new force main. On account of great delay in getting shipments on our orders for cast-iron pipe we were not able to commence work on the force main until late in September. However, we made rapid progress after that, and the force main is now laid from the Western Pumping Station to the junction of Third and Roland avenues. The previous Water Board, after a most thorough investigation of several suitable sites for the standpipe, selected a lot on the west side of Roland avenue, just beyond the city line, on the property of Francis M. Jencks.

Shortly after the present Board assumed office we approved of this selection, and arrangements were at once made to purchase the lot at the price offered, $4,500 for 150 feet front. A design for the standpipe tower, prepared by our architectural draughtsman, has been approved by the Art Commission. Contracts for the construction work will be made early in 1904, and the new system should be in service before the end of that year. This will give immediate relief to the sections in Hampden and Woodberry that now have poor pressure. At some future time the system can be extended to relieve the high areas along Charles street avenue and York road, when the increase in consumption and consequent decrease in pressure in those sections makes it necessary.

DREDGING AT LOCH RAVEN.

The appropriation for this work is from the unexpended balance of the $2,000,000 Loan of 1945, as authorized by the Board of Estimates. Work was resumed on April 25 with the new plant completed in 1902, and dredging was carried on up to November 21, when the dredge was moved down the lake to its dock. About 548,000 cubic yards of material were excavated during the year. All of the material dredged from the lake in previous years has been discharged over the dam into the stream below. Fearing that if this should be continued it might choke up the drain outlet to an objectionable extent, we started in May to pump the material on to a low field owned by the Department just below the dam. The total amount so far dredged from the lake with the new plant is about 950,000 cubic yards. From surveys and soundings made by the Department before the work was begun, it was estimated that there was over 2,000,000 cubic yards of material in the lake to be dredged. Consequently the work is about half done, and should be completed in about two years. We are also about half way up the lake with the dredge, and are now pumping the material through nearly 11,000 feet of pipe, or by far the longest line of dis-

charge pipe any suction dredge ever pumped through. We shall continue to pump the dredged material below the dam as long as possible; and if, as we work further up the lake, it is found impossible to do that, we will then pump the balance of the material to be taken out on to low land on our own property adjoining the upper end of the lake. In order to facilitate the unloading of coal for the dredge, by arrangement with the Maryland and Pennsylvania Railroad we had a coal pocket built under the siding at Loch Raven station, so that the coal cars can be unloaded directly into our coal carts. During this winter all the machinery on the dredge will be thoroughly overhauled, and repairs will be made, wherever necessary, to machinery, hull or framework, so as to put the dredge in first-class condition ready for work when the season opens next year. About 1,000 feet of additional shore pipe will also be secured, so as to enable us to extend operations further up the lake. The total charges against the work during the year were $26,508.79, including all labor, fuel, supplies, repairs, and the cost of throwing up berms on the discharge field; making the cost per cubic yard dredged in 1903 about 4.8 cents. The average cost per cubic yard dredged since the work was commenced in 1902 has been about 4.1 cents. As compared with the lowest price bid for doing the work by contract, this is a saving of over 9 cents a cubic yard; and the city is to be congratulated, therefore, upon this successful demonstration of the economy of municipal ownership and operation. While the work of clearing the lake of sediment will be completed from the balance of the loan left unexpended, large quantities of sediment will undoubtedly continue to deposit there; and the Board believes that any future dredging would properly be a maintenance charge, that should be paid for from our regular receipts.

OTHER IMPROVEMENTS COMPLETED OR UNDER WAY.

THE NEW STOREHOUSE AT GAY STREET YARD.

This much-needed building has been completed after considerable delay. The delay was due to the contractor becoming involved in unfortunate difficulties and his bondsmen having to take the contract off from his hands. The total cost of the building has been $30,574.16. We now have our valuable stock stored in a modern fireproof building, with all conveniences and arrangements for properly classifying, protecting and handling it, also enabling us to take inventories much more quickly and accurately. Our machine shop has also been greatly relieved by the removal of large quantities of this stock formerly stored there, enabling us to make much needed improvements in enlarging the office and in providing for additional shop machines. We also have in the new storehouse thoroughly modern toilet and locker conveniences for all of our shop and yard employees. The building is thoroughly satisfactory and substantial in every way, and is a credit to the ability and careful inspection of its designer, our architectural draughtsman, Mr. Fizone. A detailed description of the building is given in the accompanying report of the Assistant Engineer.

VENTURI METERS AND AUTOMATIC RESERVOIR GAUGES.

The installation of all the Venturi meters and recording gauges provided for in 1902 was completed in April, and they were started in regular operation on May 1st. We now have an accurate record as to the amount and rate of our daily consumption, and are enabled to accurately figure what we could heretofore only approximately estimate as to the amount and disposition of the flow of our sources of supply. This information is of incalculable value to us. The installation of the Venturi meters on our two 40-inch low-service mains showed a very unequal draught through them, which,

by a simple connection we were able to materially equalize, with the result of increasing the pressure in a large section of the business district west of the Falls by over five pounds. The installation of Venturi meters for the three 30-inch main supply pipes to the Middle Service from Druid Lake required that they be so designed that they would register the flow both into and out of the lake. This difficulty was successfully overcome by a special and entirely novel arrangement designed by the makers, the Builders' Iron Foundry of Providence, R. I., the meters reversing instantly and accurately. The automatic reservoir gauges were especially designed and constructed for us by Mr. Julian P. Frieze, of Baltimore, and are very satisfactory. The total cost of all this work including meters, gauges, vaults, housing, pipes, tubes, and all installation has been $15,088.88.

NEW FIRE HYDRANTS.

The designs for the new style fire hydrants have been so revised and perfected as to make a very considerable reduction in the cost of manufacturing them. We are now having made special jigs and templates to facilitate the machine work on the various parts of these hydrants which will also help to greatly lessen the cost of making them. About 18 or 20 of our new style, large, double steamer-nozzle hydrants have been inserted in the business district and others will be added as rapidly as possible where the size of mains will enable them to be used. At other points old defective hydrants will be replaced by the new style single-nozzle hydrants.

NEW SCREENS AT DRUID LAKE.

Several years ago when the extensive improvements in the water service were commenced it was planned to put new screens at Lake Clifton and Druid Lake to effectively prevent eels and refuse of all kinds from entering the distribution system. New screens were put in at Lake Clifton, but not at

Druid Lake. Upon examining the old screen in the intake well at Druid Lake we found it to be broken and corroded and impossible to clean. We, therefore, broke it out and had erected by contract with the Ellicott Machine Company a new double set of vertical screens, with hoisting derrick, so that they can be removed and cleaned when necessary. The old screen box around one of the inlet pipes to Druid Lake from Hampden Reservoir we also found to be nearly choked up with corrosion and of defective design. This was taken out and a new copper mesh screen inserted in its place, thus materially augmenting the flow from Hampden to Druid Lake and helping to keep the two reservoirs more nearly at the same level.

INCREASE OF PRESSURES.

During the year we increased the pressure in several sections of the city where the service was poor, as recommended in the general plan for improvements by Consulting Engineer Gray about seven years ago. This increase of pressure is made by floating either the upper, high or middle service pressure down into the higher sections of the next lower service area, where the pressure is low. The changes made in 1903 were as follows: On January 8 the district bounded by Federal street, Hopkins avenue, Lanvale street and Broadway was changed from middle to high service; on May 15 the north side of North avenue, between Tenth and Twelfth streets, and Tenth, Eleventh and Twelfth streets, between North and Walbrook avenues, was changed from high to upper service; on June 30 the district bounded by Twenty-third street, York road, North avenue and Oak street was changed from middle to high service; on November 24 the district bounded by North avenue, Wolfe street, Lafayette avenue, Hopkins avenue, Federal street, Bond street, Preston street and Greenmount avenue, and all of the district north of North avenue east of Belair road was changed from middle to

high service, and December 29 the 10-inch main in Pratt street, between Fremont and Parkin streets, was changed from low to middle service.

All of the changes in the service areas planned have now been made. In order to show clearly what a great improvement in the service generally these changes have made, pressures have since been taken all over the city, and the accompanying maps and diagrams have been prepared, showing graphically the proportion of the city's area having different ranges of pressures, as conditions were in January, 1897, just before the improvements were commenced, and as conditions are now. These maps show at a glance the total elimination of all pressures below 20 pounds and a very great reduction in the proportion of the city's area served having less than 40 pounds pressure, with a corresponding increase of course in the extent of the high pressure areas.

IMPROVEMENTS IN THE DISTRIBUTION SYSTEM.

Practically all of the additional large mains recommended by the Consulting Engineer in 1896, to be put in all through the city, were laid some time ago. While the benefits of this additional distribution capacity have been demonstrated in the very great diminution in the number of complaints of slack supply from private consumers and from the Fire Department, there has been heretofore no comprehensive study of the improved conditions as compared with former conditions in the distribution system. Believing that a graphical comparison to show what benefits have been derived from the large outlay made for this purpose would be of great satisfaction, not only to the Water Department, but also to your Honorable Body and the taxpayers generally, we have made the accompanying map and diagram showing the conditions as to large mains 10 inches and over in diameter, in January, 1897, before the improvements were commenced and at the present time, as to total length, total capacity and capacity per square mile of area served. The diagram shows that

there has been made an increase of over 50 per cent. in the total storage capacity of large mains in the city and of nearly 50 per cent. in the storage capacity per square mile in the old city limits. This increase in storage capacity carries with it, of course, a corresponding increase in delivering capacity for consumption at all points.

That the changes made in the service areas and the additional large mains laid did not complete the necessary improvements in the distribution system was realized early in the last administration. At a great many points the new mains were not thoroughly connected with the distribution system; hundreds of old small mains, badly corroded and choked and constantly leaking, were still in service; hundreds of dead ends, and pockets collecting sediment and causing bad water, still existed, and many crooked connections and long shut-offs remained to cause the Department endless trouble in emergency cases. Consequently the Department started, in 1901, to clean up the distribution system by cutting out of service the old small mains, transferring services, connecting up dead ends, straightening connections and inserting additional valves, wherever necessary and possible. Fifty-seven thousand six hundred and twenty-five feet of old 1½-inch to 6-inch mains were cut out of service during the year 1903, and 1,100 services transferred from these to larger mains. Since this work was begun, in 1901, we have cut out nearly 170,000 feet, or over 32 miles, of old small mains, and have transferred about 4,000 services to larger mains. Nearly all of the city north of Mosher and Eager streets, and a large section of South and Southwest Baltimore, has been improved in this manner, and the work will be continued as rapidly as possible until the whole distribution system has been revised and improved.

ABATEMENT OF POLLUTIONS.

During the year we have secured the abatement of 46 pollutions, 12 on the Jones' Falls watershed and 34 on the Gun-

powder River watershed. All of these were abated by the owners upon our simple request. The most important development of the year in this matter has been our success in enlisting the active interest of the City Solicitor, and in getting him to take legal action against property owners who persistently refuse or neglect to comply with our requests to abate pollutions. All data and plans were prepared in two of the worst cases of direct drainage to streams in our watershed, and put in the City Solicitor's hands. The mere intimation from him that legal action would be taken was sufficient to bring the property owners to promise to comply with our requirements as soon as possible. Other flagrant cases of pollution will be taken up in the same way, and it is hoped that by this means all the worst cases of pollution will be rapidly eliminated from the watersheds.

ENLARGEMENT OF MACHINE SHOP.

For some time it has been evident that our machine shop was not equipped with enough modern machines to do all of our repair work and at the same time make up enough new department valves and hydrants to meet the demand of the service. Consequently we installed early in the year three additional lathes, a large planer and two tool grinders. The addition of these machines has enabled us to work much more effectively and economically, but we need more machines and we have obtained in our appropriation for 1904 an additional allowance of $10,000 for this purpose.

PERFECTION OF ACCOUNTING AND RECORDING SYSTEM.

Through the intelligent and persistent activity of our Chief Clerk, Mr. Nagle, our accounting and recording system is now showing the most commendable and satisfactory results. The variation between our stock book balances and stock inventories has been steadily reduced until now on over $110,000 worth of stock, it is less than a fiftieth of one per cent., or

only an insignificant fraction of what is usual for private corporations with similar stock. We have introduced the card system for our general ledger accounts with very satisfactory results, and intend next year to adopt it for our stock accounts. From a complicated system, involving a great deal of useless labor and duplication with very little results of practical value, has been evolved a system of accounts showing in the simplest way everything of value for reference or comparison as to all real estate, construction, fixtures, operation, loans, sinking funds, appropriations, stock, and all other matters.

PROGRESS ON METER WORK.

During the year we have continued the installation of meters on the following classes of properties formerly wholly or partly under flat water rates: Drug stores, bottling houses, livery stables, hotels, and saloons; about 380 meters being placed in this way. In addition to these meters about 120 meters were installed on new supplies. We have also during the year continued the work of taking out old meters that have been in service a long time without repairs or recalibration and which considerably under-register or do not register at all. One hundred and thirty-two of these meters were taken out and adjusted, with the result of making a considerable addition to our meter revenues. This work will be continued until all meters in service are in first-class condition.

CONDITION OF PROPERTY.

All of the pumping stations, machinery, buildings and reservoirs under the control of the Department are now in first-class condition, and have been so during the year.

PARK LIGHTING PLANT AT THE WESTERN PUMPING STATION.

By direction of the former Mayor an electric lighting dynamo and engine for lighting Druid Hill Park was installed in vacant space in the boiler room of our Western Pumping Station in 1901. The arrangement was made to take steam from our boilers there which furnish power for pumping only in the day time. It was understood at the time that this Department was to furnish the firemen and the coal, and that the Park Board was to reimburse us for the actual value of the labor and fuel used to operate the plant. Bills were sent regularly to the Park Board, and repeated requests made by us for settlement; but no payment was made by the Park Board until the latter part of this year, nearly two years from the time the plant was started. Even then only a partial payment was made, the Park Board objecting to some of the details of the bills. As the present arrangement of this plant is an inconvenience to us and a convenience and economy for the Park Board, we have felt justified in notifying them that hereafter we must have a written agreement with them as to the amount and method of payment if the arrangement is to continue. We have also notified them that when the new Eastern Upper Service is completed, as it will be before the end of next year (1904), we shall need the space now taken up by the electric light machinery for an additional boiler, and, consequently, that they should make provision as soon as possible for removing the plant.

IMPORTANT MATTERS UNDER CONSIDERATION.

The present Water Board has had several important matters affecting the Department under consideration since assuming office on October 1.

1st—PLANS TO INCREASE REVENUES FROM WATER RENTS

The ordinance reducing water rates, which was adopted in 1901 and went into effect January 1, 1902, was drawn up without the advice or consideration of the Water Board. What led to the introduction of such an ordinance was undoubtedly the fact that the Department has had for several years previous a very large surplus. Estimates were prepared at the time to show that the ordinance would reduce the revenues by about $172,000. That so large a reduction was made must have been on the assumption either that the surplus of previous years had been more than that amount, or that, if it had not been, the normal increase in water rents from new properties would more than make up the difference. These assumptions may have seemed reasonable enough at the time, but experience has demonstrated that the amount of reduction in revenues affected by the ordinance was greater than estimated, and that the necessary Department expenses have increased by a greater amount than the normal increase in revenues from the city's growth. Consequently we are confronted with the prospect of an annual deficiency, and we feel that some action must be taken as soon as possible to increase our revenues. Before drawing up any plan for this purpose, we first took steps to estimate as closely as possible the probable amount of the deficiency. Consequently the Collector of Water Rents prepared, at our request, a statement showing what the total yearly revenue would be from all properties and fixtures on his books at the present rates. His statement shows that the total flat rates would amount to $505,626. Allowing for the usual discount, and adding the same revenues from meter rents, plumbing bills, turn offs and vacancies, rents and sales of old material, as were collected this year, and we have total possible receipts, on the basis of present conditions, of $809,700.

The absolutely necessary expenses of our Department and that of the Collector of Water Rents, including interest on loans, amount to not less than $875,000,

and would be not less than $900,000 if the dredging of Loch Raven should be charged to our regular expense account instead of to a loan account, as the Board believes should be done in the future. Consequently the apparent deficiency is from $65,000 to $90,000. The only way by which this deficiency can be made up is by increasing the water rates. Consequently we are now preparing an ordinance revising the rates which will be introduced before your Honorable Body as soon as possible. If such an ordinance is passed it cannot take effect before the year 1905. Therefore it is evident that for the year 1904 we must either make strenuous efforts to cut down our expenses by the amount of the probable deficiency in revenues, or, if that is not possible, that we must have for next year an additional appropriation from some fund or a temporary loan.

We believe that any revision of the water rates should provide for a period of at least ten years to come. It should therefore, in addition to making up the present deficiency, provide for the possibility of the necessary expenses increasing at a more rapid rate than the receipts, and also for the continuance of some very important improvements to the service which are not provided for in any loan, such as the cutting out of dead ends and old small pipe in the distribution system, the installation of hundreds of necessary additional modern hydrants, the possible purchase of land in the watersheds of our sources of supply, etc. In drawing up this ordinance we shall also take the opportunity to more clearly define certain rates which are now ambiguous and indefinite. We earnestly hope that the Council will appreciate the serious financial condition of this Department and will not only pass an ordinance revising the rates, but will also discontinue the policy of giving free water or nominal rates to hospitals or other institutions.

The objection to giving water free or at nominal rates is that it almost invariably leads to a large increase in the amount of water consumed and leaves the Water Department with no

effective means to prevent waste. In the case of several prominent hospitals which were formerly under meter and which were recently put under a nominal rate of $10 a year by action of the City Council, immediately after the nominal rate was applied the consumption of water at these institutions increased by from 50 to 100 per cent. As the regular meter rate at which these institutions formerly paid for water is about the lowest of any large city in this country there is no reason to suppose that having to pay for all water used had caused these institutions to make any great restriction in the use of water for necessary purposes. Because of this fact and also because the increase in consumption immediately following the application of the nominal rate is so enormous, we cannot but conclude that this increase in consumption is very largely unnecessary waste of water. The suggestion will undoubtedly be made that the Water Department can retain or put meters on the supplies to these institutions and thus be cognizant of any increase in consumption or waste. This would avail nothing, however, as we have no power to compel the restriction of such waste by shutting off the water or by any other means. The only effective remedy in preventing waste is in the incentive that the owners or managers of property have, in paying for the actual amount of water used, to keep down their water bills by stopping all leaks and unnecessary consumption.

As the sentiment of the public, as evidenced by the action of the City Council, seems to be favorable to granting some concession to such institutions in the shape of lower water rents, we, therefore, suggest that this end may be accomplished and at the same time the interests of this Department in the prevention of unnecessary waste of water can be protected by putting all such institutions under meter, but at a lower meter rate than that regularly charged. We, therefore, intend to incorporate into the proposed ordinance to revise the water rates the ordinance prepared by the former Water Board fixing a sliding scale of reduced meter rates for such institutions in proportion to the degree in which they are charitable.

2D—PLANS TO DEFINE AND INCREASE THE POWERS OF THE WATER BOARD.

The present statutes and regulations affecting the administration of the Water Department are the accumulation of years. In some respects they are very indefinite, confusing or conflicting.

We are now having all of these statutes and regulations compiled, and propose to have an ordinance introduced that will eliminate all confusing and conflicting Acts and will re-enact those that are clear and essential, with such additional regulations as shall be deemed necessary.

Also, the present water rate ordinance does not give the Board enough latitude in modifying the charge for private houses of wide frontage in cases where an application of the front foot rates as fixed by the ordinance would work an obvious injustice. Also the Water Board should be given the power to order water to be turned off for non-payment of plumbing bills and to order the refunding of overcharges or erroneous payments.

We propose to have introduced into the Legislature an enabling Act which shall authorize the City Council to delegate these powers to the Water Board.

ALFRED M. QUICK, President.
JOHN E. SEMMES,
J. EDWARD RICHARDSON,
LOUIS A. DIETER,
OSCAR E. ROSS,
Water Board of Baltimore City.

REPORT OF AUDITING DIVISION.

BALTIMORE, December 31, 1903.

Mr. Alfred M. Quick, Water Engineer.

DEAR SIR—I submit herewith the report of the Auditing Division for the year ending the above date.

This Division during the year has kept the books of the Department, showing its accounts with outside parties and with other departments of the city government; has kept a record of all receipts and disbursements; has made up pay-rolls and paid off all employees; has ordered all materials, taken all inventories and kept stock-ledgers; has kept a record of all work done on shop orders, checked and compared all bills, drawn up all warrants, and kept a record of all rents, insurance, etc. Careful attention has been given during the year to the placing of all orders for supplies required by the Department not covered by contracts; competitive prices being always obtained (except for small emergency orders), and a saving of $1,497.97 was effected by the practice.

Collections (for account of sales of old materials) have been followed up very closely by correspondence, etc.

The system of accounts inaugurated in 1900 has again shown excellent results during the year just closed—the details being more clearly understood by the bookkeepers and stock clerks—the difference between the inventory and the stock-ledgers of the Mechanical Division being only $19.71 out of a total stock of $103,340.40, and $3.80 out of a total stock of $6,931.12 at the Construction Division.

One of the most satisfactory innovations during the year has been the separation and segregation of the patterns at the Gay-street yard. These were formerly carried on our books

at an arbitrary valuation for the entire lot, and were so stored as to make it a matter of considerable time to locate them when wanted. Each pattern has been appraised and numbered, and a record book opened with numbers to correspond, so that now when one is desired, after ascertaining its number on the record book, it is a matter of very short time to locate it. The value of the improvement will be apparent when it is considered that we have about 1,400 patterns in stock, and by having a cost price to each pattern, we are enabled to make an intelligent entry of it when it becomes obsolete, destroyed or in any way disposed of. While revising and systematizing these patterns, great quantities, the accumulation of years, that had become obsolete and of no actual value, were destroyed, thus giving us more storage space as well as leaving only the valuable ones—those now in use, or which may at any time be called for.

During the year the card ledger system has been installed for our General Ledger Accounts—with very satisfactory results, and during the coming year we expect to apply it to our stock-ledgers. This system has many advantages over the old bulky ledgers heretofore used, among which may be mentioned their compact and ready reference qualities, in addition to the fact that they are considerably more economical.

I present below the annual statements, showing the assets and liabilities of the Department, the gross receipts and total disbursements, disbursements in each of our three appropriation accounts, and a statement of stock on hand December 31, 1903.

The work of the employees of this Division has been eminently satisfactory during the year just closed, and I again take pleasure in commending them for the able, intelligent and conscientious manner in which they have performed their respective duties, and their cheerful response to every request I have made of them.

Respectfully yours,

CHAS. W. NAGLE, *Auditor.*

DEPARTMENT OF PUBLIC IMPROVEMENTS.

SUB-DEPARTMENT, WATER BOARD.

STATEMENT OF ASSETS AND LIABILITIES TO DECEMBER 31ST, 1903.

ASSETS.	Accounts Receivable.	Tools and Machinery.	Furniture and Fixtures.	Horses and Wagons	Mains Laid, Etc.	Land Construction and Real Estate.	Sinking Funds.	Stock on hand Dec. 31, 1903.
Water Board	$ 86,588 44	$ 42,604 47		$ 314 40	$4,312,424 07	$ 850 62	$2,605,748 32	$ 17,197 62
Construction Division		7,385 42	$ 849 65	5,857 30				6,931 12
Mechanical Division		12,599 43	117 10	1,473 15				103,355 47
Western Pumping Station		74,304 17	156 07	264 40		53,577 00		
Eastern Pumping Station		85,972 87	215 95			167,609 07		
Mt. Royal Pumping Station		135,088 53	1,360 33			240,891 00		
Machine shop		13,577 27	178 95					
Lake Montebello		351 95	22 00	760 00		1,149,648 07		
Lake Clifton		6,088 85		37 15		729,832 63		
Mt. Royal Reservoir		19 05				133,162 35		
Druid Lake		9,018 39	16 75	246 45		1,334,573 92		
Hampden Reservoir		165 25				226,043 53		
W. H. Service Reservoir		10 00				112,518 57		
Guilford Reservoir		60 00	3 00			162,671 24		
Loch Raven		116,647 54		2,306 50		880,516 64		
Water shed patrol				123 00				
Gunpowder conduit						1,779,610 24		
Lake Roland		591 90	25 00	259 00		378,606 20		
Jones' Falls conduit						569,043 35		
West Arlington standpipe		79 15				41,732 74		
Engineering Division			1,048 25					574 15
Auditing Division			231 36					75 00
Total accounts receivable	$86,588 44							
Total tools and machinery	504,564 24	$504,564 24						
Total furniture and fixtures	4,224 41		$4,224 41					
Total horses and wagons	11,641 35			$11,641 35				
Total Mains laid, &c	4,312,424 07				$4,312,424 07			
Total land construction and R. E.	7,960,887 17					$7,960,887 17		
Total sinking funds	2,605,748 32						$2,605,748 32	
Total stock on hand	128,133 36							$128,133 36
Total assets	$15,614,211 36							

Liabilities.	Accounts Payable.	Loans.
Water Board	$13,014 40	$9,500,000 00
Total accounts payable	$13,014 40	
Total loans	9,500,000 00	$9,500,000 00
Total liabilities	$9,513,014 40	

Total assets	$15,614,211 36
Total liabilities	9,513,014 40
Excess assets over liabilities	$6,101,196 96

Division	Items.	RECEIPTS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Construction.	New services inserted	$ 560 00	$ 448 00	$1,776 00	$1,444 00	$1,514 00	$2,896 00	$1,238 00	$1,978 00	$1,652 00	$1,716 00	$1,416 00	$ 674 00	$17,312 00
	Meter supplies inserted		492 94	470 60	364 72	402 76	625 32		919 83	483 62	525 74	1,179 72	1,157 50	6,622 75
	Repairs	124 58	827 20	702 52	401 15	382 78	549 20	405 24	218 97	1,252 30	1,203 39	697 32	791 86	7,556 51
	Sand, etc													
	Totals	$ 684 58	$1,768 14	$2,949 12	$2,209 87	$2,299 54	$4,070 52	$1,643 24	$3,116 80	$3,387 92	$3,445 13	$3,293 04	$2,623 36	$31,491 26
Mechanical.	Scrap	$ 458 96			$ 422 56		$ 552 25			$ 643 15			$ 352 26	$ 2,429 18
	Old brass													
	Pipe and castings	2 71	$ 1 32	$ 25	2 47	$ 86 12			$ 57 56	49 27	$ 20 76		50 07	270 53
	Coal												3,275 22	3,275 22
	Miscellaneous	25 62		30 12	70 00	275 52	16 00		142 88	11 17	24 07		94 29	689 67
	Totals	$ 487 29	$ 1 32	$ 30 37	$ 495 03	$ 361 64	$ 568 25		$ 200 44	$ 703 59	$ 44 83		$3,771 84	$ 6,664 60
County.	Hay, fodder, etc	$ 20 60	$ 461 43	$ 230 89	$ 153 33	$ 77 25	$ 72 72	$ 52 75	$ 4 00	$ 15 00	$ 572 31	$ 49 47	$ 41 86	$ 1,751 61
	Horses, mules, wagons and harness					11 00								11 00
	Wood	14 00	34 25	9 00	6 12	9 00	6 75	4 87	4 25		12 28		5 25	105 77
	Sand		2 50	7 90	5 00	10 50	2 70		2 00				12 70	43 30
	Ice	17 63		12 06	39 45	99 29	30 76						11 94	211 13
	Rent	68 00	18 00	68 00	18 00	18 00	18 00	18 00	18 00	218 00	18 00	18 00	18 00	516 00
	Totals	$ 120 23	$ 516 18	$ 327 85	$ 221 90	$ 225 04	$ 130 93	$ 75 62	$ 28 25	$ 233 00	$ 602 59	$ 67 47	$ 89 75	$ 2,638 81
	Grand Total	$1,292 10	$2,285 64	$3,307 34	$2,926 80	$2,886 22	$4,769 70	$1,718 86	$3,345 49	$4,324 51	$4,092 55	$3,360 51	$6,484 95	$40,794 67

SUMMARY OF DISBURSEMENTS AND RECEIPTS FOR 1903.

DISBURSEMENTS.

ITEMS.	December.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	Totals.
Books, stationery and printing	$ 200 87	$ 437 92	$ 136 92	$ 129 82	$ 40 94	$ 154 88	$ 189 12	$ 54 28	$ 163 20	$ 212 96	$ 192 99	$ 54 30		$ 1,968 20
Drawing materials		6 08	17 75	17 44	11 55		16 75	14 04	4 10			3 00		90 71
Office furniture and fixtures	8 50			75	7 50	12 50			44 25		76 00	1 50		151 00
Light and fuel	3,620 88	3,448 59	2,606 33	3,509 58	2,449 49	8,314 83	4,326 18	5,214 38	6,312 16	4,450 41	3,253 97	3,206 96		50,713 76
Cleaning up at Lake Roland	26 30													26 30
Labor	1,094 83	19,165 15	13,326 97	15,344 16	15,557 55	22,053 59	18,470 45	21,827 11	19,297 04	17,864 21	21,116 24	15,603 73	$12,568 42	213,289 45
Hauling	52 06	190 43	30 63			307 29		424 11						1,004 52
Venturi meters					9,287 49									9,287 49
Altering conveyor Mt. Royal P. S														
Pumps and boilers														
Tools and hardware	96 71	35 46	120 45	3,641 07	342 81	835 54	205 23	561 31	418 42	224 15	62 73	184 82		6,728 70
Machinery	564 36							39 39						603 75
Cast iron pipe	1,840 85	5,926 17	370 23		877 69		2,967 45	3,365 42	2,401 23	1,854 13		346 14		19,949 31
Cast iron pipe fittings	467 61	526 23	1,192 39	1,018 41	1,273 92	505 16	1,314 67	1,061 34	797 62	1,251 68	171 70	235 61		9,816 34
Special iron castings	844 01	746 07	35 01	1,107 67	526 32	565 68	253 80	1,202 02		164 13		265 38		5,710 09
Valves	565 80	24 90	105 00		401 50	179 70		20 16	419 00	747 00				2,463 06
Wrought iron pipe and fittings	159 45	261 57	161 36	177 54	132 71	239 72	231 93	275 24	234 20	3 96	141 70	114 87		2,134 25
Service pipe and fittings	1,028 08		658 00	1,552 54	2,629 00		717 00	1,375 41	1,922 25	792 40		691 63		11,366 31
Brass castings	238 82	33 41	522 15	59 70	931 31	489 48	1,498 17	172 15	1,247 89	30 71	444 85			5,668 64
Bar iron and steel	2 03	16 15	28 06	16 35	44 21	140 90	689 68	15 94		4 61	23 14			981 07
Meters	1,818 30	827 11	1,702 49	197 90	2,008 31	1,083 11	7,972 47	4,358 48	1,494 07	5 27	81 78	317 78		12,733 19
Lead					5,476 81									5,476 81
Lumber	294 30	1 75	277 31	382 49	277 61	401 08	105 83	218 86	238 02	4 05	149 60	58 41		2,409 31
Rope and packing	39 00	34 07	87 16	60 60	296 45		68 25	23 67	91 99	12 03	63 08	250 55		1,026 85
Grease, waste, paints and oil	283 72	567 16	217 30	486 31	373 26	412 06	457 53	436 10	548 51	451 63	569 84	142 80		4,946 22
Rubber	299 25		486 85		156 15	278 90		315 06	25 45	91 60	19 53	30 66		1,703 45
Bricks, stone and cement	3 38	161 75	146 89	373 53	357 55	279 34	68 48	304 74	361 32	102 77	166 49	89 71		2,415 95
Sand, gravel and ashes		25 00	6 75	35 25	9 25			55 75						132 00
Asphalt paving	177 19	147 89	9 50	122 42	79 02	162 73	82 38	69 13	134 57	275 87	86 79	384 03		1,731 52
Feed	171 13		219 51	129 85	69 72	159 87	185 42	266 97	148 68	359 81	137 69	208 16		2,056 81
Insurance					163 89	150 00	51 00	21 00	22 50		51 30			438 69
Current expenses	1,806 48	968 01	144 62	768 71	565 82	383 63	628 85	2,104 42	562 47	228 96	513 49	675 88		9,351 34
Sundries	236 28	273 41	484 03	2,059 47	420 18	683 01	604 17	1,259 25	2,109 33	763 48	787 82	927 17		10,628 60
Storehouse at Gay-street yard	904 50	1,631 71	2,325 55	5,217 44	5,589 00	1,350 00	1,710 00	1,080 00	1,706 44	1,552 50	3,618 90	1,123 30		27,809 24
Construction of dredging plant														
Salaries	6,608,70	6,643 21	6,727 85	6,743 56	6,749 99	6,646 61	6,770 48	6,678 17	6,704 67	6,848 32	6,849 75	6,854 99	3,330 83	84,157 13
1943 Loan				166 80	613 79	36 90				7,940 59	12,344 37	13,614 94		34,717 39
Totals	$23,453 39	$42,099 20	$32,147 06	$43,319 36	$57,720 79	$45,826 51	$39,585 29	$52,813 90	$47,409 38	$46,237 23	$50,923 75	$45,386 32	$15,899 25	$543,687 45
Excess for meters receipts over expenditures										894 53	461 96	782 02		5,737 82
										$45,342 70	$50,461 79	$44,604 2		$537,949 63

STATEMENT OF EXPENDITURES FOR 1902-3.

CHARGED TO $2,000,000 LOAN.

Months.	Fuel.	Labor.	Tools and Hardware.	Machinery.	Wrought Iron Pipe and Fittings.	Bar Iron and Steel.	Lumber.	Rope and Packing.	Grease, Paints, Waste and Oil.	Rubber.	Current Expenses.	Sundries.	Totals.
December	$ 453 51	$ 1,094 83	$ 4 90	$564 36	$ 55 38		$ 54 29		$ 36 65		$ 6 15		$ 2,270 07
January		1,030 62	2 95		92 24	$16 15			61 81		247 95	$ 2 40	1,464 12
February		1,682 55	4 65		7 34	9 86			39 97	$418 60	12 65		1,575 62
March		1,032 92	2 55		2 36		76 37		55 11			5 87	1,175 18
April		1,342 25	13 74		1 85	21 77		$296 45			12 30	21 08	1,709 44
May	753 09	1,443 31	7 61		16	5 76	28 78		75 68	278 90	5 96		2,599 25
June	372 40	1,615 05	11 55				38 47		98 52		63 87	2 46	2,202 32
July	542 42	1,254 50	12 85	39 39	33 03	8 58		16 64	192 05		1,048 09	21 00	3,168 55
August	268 60	1,418 51	15 90		3 76		38 47		306 97			31 50	2,083 71
September	864 80	1,526 83	2 70			3 62			242 20		6 15	11 69	2,687 99
October	750 33	1,297 92			4 60	1 55	57 30		381 42		24 30	457 50	2,974 62
November	769 53	1,635 16	17 30		2 20			172 11			1 02		2,597 62
December													
Totals	$4,804 68	$15,784 75	$96 70	$603 75	$202 92	$67 29	$293 68	$485 20	$1,490 38	$697 50	$1,428 44	$553 50	$26,508 79

Months	Charged to $1,000,000 Loan.	Charged to Appropriation for Salaries.	Charged to Appropriation for New Store House	Charged to Meter and Plumbing Receipts.
December		$ 6,608 70	$ 904 50	$ 1,818 30
January		6,643 21	1,631 71	827 11
February		6,727 85	2,325 55	1,702 49
March	$ 166 80	6,743 56	5,217 44	197 90
April	613 79	6,749 99	5,589 00	2,008 31
May	36 90	6,636 61	1,350 00	1,683 11
June		6,770 48	1,710 00	1,309 54
July		6,678 17	1,080 00	2,398 71
August		6,704 67	1,706 44	982 89
September	7,940 59	6,818 32	1,552 50	5 27
October	12,344 37	6,849 75	3,618 90	81 78
November	13,614 94	6,854 99	1,123 20	317 78
December		3,330 83		
Totals	$34,717 39	$84,157 13	$27,809 24	$12,733 19

MEMO. METERS.

Cash paid for meters	$12,733 19
Cash received for meters	5,737 82
	$6,995 37

CHARGED TO WATER ENGINEER'S EXPENSE APPROPRIATION.

Months.	Books, Stationery and Printing.	Drawing Materials.	Office Furniture and Fixtures.	Fuel.	Cleaning Up at Lake Roland.	Labor.	Hauling.	Tools and Hardware.	Cast Iron Pipe.	Cast Iron Pipe Fittings.	Special Iron Castings.	Valves.	Wrought Iron Pipe and Fittings.	Service Pipe and Fittings.	Brass Castings.	Bar Iron and Steel.	Meters.	Lead.	Lumber.	Rope and Packing.	Grease, Paint, Waste and Oils.	Rubber.	Bricks, Stone and Cement.	Sand, Gravel and Ashes.	Asphalt Paving.	Feed.	Insurance	Current Expenses.	Sundries.	Venturi Meters.	Totals.
December	$ 200 87		$ 8 50	$ 3,167 37	$26 30		$ 52 06	$ 91 81	$ 1,840 85	$ 467 61	$ 844 01	$ 565 80	$ 104 07	$ 1,028 08	$ 238 82	$ 2 03			$ 230 01	$ 39 00	$ 247 07	$ 299 25	$ 3 38		$ 177 19	$ 171 13		$1,800 33	$ 236 28		$11,851 82
January	437 92	$ 6 08		3,418 59		$18,124 53	190 43	32 51	5,926 17	526 23	746 07	24 90	169 33		33 41				1 75	34 07	595 35		161 75	$ 25 00	147 89			720 06	271 01		31,533 05
February	136 92	17 75		2,606 33		12,244 42	30 63	115 80	370 23	1,192 39	35 01	105 00	154 02	658 00	522 15	18 20			277 31	87 16	177 33	68 25	146 89	6 75	9 50	219 51		131 97	484 03		19,815 55
March	129 82	17 44	75	3,589 58		14,311 24		3,638 52		1,018 41	1,107 67		175 18	1,552 54	59 70	16 35			306 12	60 60	431 20		373 53	35 25	122 42	129 85		768 71	2,953 60		29,818 38
April	40 91	11 55	7 50	2,449 49		14,215 30		329 07	877 69	1,273 92	526 32	401 50	130 86	2,629 00	931 31	22 44		$5,476 81	277 61		373 26	156 15	357 75	9 25	79 02	69 72	$ 163 89	553 52	399 10	$9,287 49	41,050 26
May	154 88		12 50	7,561 74		20,610 28	307 29	827 93		505 16	565 68	179 70	239 56		489 48	135 14			372 30		336 38		279 34		162 73	159 87	150 00	377 67	683 01		34,110 04
June	189 12	16 75		3,953 78		16,855 40		193 68	2,967 45	1,314 67	253 80		231 93	717 00	1,498 17	689 68	$6,662 93		67 36	68 25	359 01		68 48		82 38	185 42	51 00	961 98	661 71		37,592 95
July	54 28	14 04		4,071 96		20,572 61	424 11	548 46	3,365 42	1,061 34	1,202 02	20 16	242 21	1,375 41	172 15	7 36	1,959 77		218 86	7 03	214 05	315 06	304 74	55 75	69 13	266 97		1,559 33	1,259 75		39,488 47
August	163 20	3 10	41 25	5,043 56		17,878 53		402 52	2,401 23	797 62		419 00	230 44	1,922 25	1,247 89		511 18		199 55	91 99	241 51	25 15	391 32		134 57	148 68	22 50	562 47	2,077 83		35,931 67
September	212 96			3,555 61		16,337 38		221 45	1,854 13	1,751 68	164 13	747 00	3 96	792 40	30 71	99	—894 53		4 95	12 93	209 43	91 60	102 76		275 87	359 81		222 81	751 79		26,308 03
October	192 99		76 00	2,503 64		19,818 32		62 73		171 70			137 10		444 85	21 59	—461 96		92 30	63 08	188 42	19 53	166 19		86 79	137 69	51 39	489 19	339 32		24,592 07
November	51 30	3 00	1 50	2,437 43		13,968 27		167 52	346 14	235 61	265 38		112 67	691 63			—782 02		58 41	78 44	142 80	30 66	89 71		384 03	208 16		674 86	927 17		20,095 67
December						12,568 42																									12,569 42
Totals	$1,968 20	$90 71	$151 00	$45,909 08	$26 30	$197,504 70	$1,004 52	$6,632 00	$19,949 31	$9,816 34	$5,710 09	$2,463 06	$1,931 33	$11,366 31	$5,668 64	$913 78	$6,995 37	$5,476 81	$2,115 63	$541 65	$3,455 84	$1,005 95	$2,415 95	$132 00	$1,731 52	$2,056 81	$138 69	$7,922 91	$10,075 10	$9,287 49	$364,757 08

BALTIMORE, December 31, 1903.

Receipts.

By amount received from Water Rents	$557,540 63	
Less refunded	923 45	
	$556,617 18	
Less discount	14,183 39	
		$542,433 79
By Interest on back Water Rents		3,736 36
By Meter Rents		276,684 35
By Amount from New Meters installed		5,737 82
By Turn Offs		1,455 00
By Vacancies		250 00
By Plumbing Bills		23,240 80
By Wages returned		28 14
By Rents and sales of materials		9,267 77
By Amount from 1902, transferred		4,492 15
		$867,326 18

Disbursements.

Water Engineer's Department—		
Salaries	$84,157 13	
Expenses	379,523 04	
Collector Water Rents and Licenses—		
Salaries	22,596 50	
Expenses	381,049 51	
		$867,326 18

ENGINEERING DIVISION.

BALTIMORE, December 31, 1903.

MR. ALFRED M. QUICK, *Water Engineer.*

DEAR SIR:—I herewith submit my report of the operations of the Engineering Division for the year ending December 31, 1903.

During the year this division has been engaged in its usual work of preparing plans for work done by the Construction and Mechanical Divisions, preparing plans for and supervising work performed for the Department by contractors, and making the usual inspections, tests, etc.

This division has been called upon to make surveys in only two cases of pollution on the water sheds during the year. One inspection was made, and several samples of water were taken for analysis.

The five Venturi meters, for registering the entire amount of water supplied to the city by gravity, ordered last year from the Builders' Iron Foundry, of Providence, R I., have been installed.

The three 30-inch meters located at Druid Lake are reversible; that is, constructed so as to register water flowing in either direction. This style of Venturi meter is a novelty, they being the first ones ever built to reverse automatically. Each meter is provided with two registers, and a device within the meter tube with proper connections to throw one register out of action and the other into action when a reversal of the current occurs.

It was necessary to use this style of meter at that point because at times the supply from Lake Roland is insufficient to meet the demands of the service. At such times water is pumped into the Middle Service from the Gunpowder supply,

and frequently more water is pumped than the service demands, and the excess backs up into Druid Lake through the same mains which under ordinary conditions supply the city by gravity.

It will be seen that without the reversing meter no account could be taken of the excess, and the city would be charged with more water than actually used.

Several times during the year this backward flow into Druid Lake has taken place, and each time the meters have reversed promptly and satisfactorily, much to the satisfaction of the designer and myself, as some uneasiness must be experienced when dealing with a costly experiment.

The two 40-inch meters at Lake Clifton are of the ordinary type of Venturi meters, registering water in one direction only.

Each meter register is fitted with an automatic attachment for recording graphically on a chart the rate of flow in gallons per hour for each quarter hour during the day. The chart for a full month is a narrow strip of paper about twenty-two feet long, fed through the machine from a roll. Some interesting results may be obtained from these charts as any extraordinary consumption, such as fires, etc., shows clearly and at the exact time it occurred.

The installation of all the Venturi meters, registers, etc., were completed on April 3, and regular readings to ascertain the amount of water consumed by the city were begun May 1.

After four months' observation of the consumption of water, as shown by the two 40-inch meters at Lake Clifton, it was apparent that the main in Washington street, supplying the southern and southwestern sections of the city, was delivering about forty-three per cent. more water than the other 40-inch main supplying the southeastern section.

In order to equalize the flow in these two mains a 20-inch connection was made between them at Lombard and Washington streets. This connection was completed and placed in service on October 6. Subsequent observations show that

while the flow is not equalized, the difference in the amount of water delivered by the two mains is only sixteen per cent.

An increase in pressure is also noticeable on the fire hydrants along Lombard and adjacent streets in the business and manufacturing sections of the city.

The two automatic water stage registers ordered from Julien P. Frieze, of the city, have been completed and erected at Loch Raven and Lake Roland. These instruments produce a graphic record on a ruled chart showing the height of water in the lake for every hour and minute during the day. The records are used to determine the amount of water flowing over the dam.

With the introduction of the Venturi meters, water stage registers, etc., the task of reporting each month the amount of water used by the city, amounts wasted at the various reservoirs, and the total flow of streams was placed in my hands, and the attached tabulated statement shows the results from May to December, inclusive. Much of the labor required to arrive at these results has been eliminated by the preparation of curves on standard cross section paper for showing the amount of water flowing over the dams and weirs for any given head, and the amount of water in the reservoirs for any height of water. With these charts results can be read at once that would otherwise require laborious calculations.

The new storehouse at the Gay street yard was completed about December 1. The following is a brief description by Mr. William J. Fizone, of this division, who designed and superintended the construction of the building.

"The enclosing walls of the building have been heavily constructed of good red brick, laid up in 'Offenbacker' cement mortar, and faced on the exterior with sand brick, laid up in black mortar.

"The lintels of the second story windows and all the sills, as well as the base course running around the entire building at the first floor line, are of 'Kibbie' red sandstone, quarry

faced. The windows of the building are grouped in pairs—those of the first floor having circular heads with broad moulded arch faces. The first floor of the building is constructed of concrete, with a two-inch top finish of crushed granite and cement. Only a portion of this floor has a cellar under it, and at this portion of the building the floor is supported upon heavy steel beams.

"The entire first and second floors have been made as nearly fireproof as possible. Heavy iron beams, supported upon the enclosing walls and upon two rows of protected cast iron columns running through the building, carry the second floor, which with a portion of the first floor has the 'Roebling' system of fireproof construction. This system uses cinder concrete panels reinforced with metal bars between the beams.

"The first floor is divided into twelve rooms by two-inch hard plaster and metal lath partitions, giving an economy of space and affording fireproof protection.

"The roof is covered with Spanish tile, supported upon well-selected and heavy-tongued grooved and beaded sheathing, which with rafters supporting it has been finished in hard oil, giving it a neat and bright appearance. Iron trusses, supported upon the enclosing walls, carry this roof construction, thereby allowing a clear and unobstructed floor space of about forty-three hundred square feet.

"The building has been wired and furnished throughout with electric lights, and is supplied with current from the generator in the pumping station.

"A hydraulic elevator of more than one ton capacity, and of the plunger type, affords a safe and efficient method of handling material stored upon the second floor.

"A portion of the first floor of the building and the entire basement is heated by steam, which formerly exhausted into the sewer and was wasted. The system can also be supplied with live steam from the boilers when the engine is not running.

"In the basement is situated a locker-room, containing sixty expanded metal lockers, giving ample facilities for the men employed about the premises. Wash basins and closets occupy a portion of this room, and place at the disposal of the employees such facilities as modern custom demands."

The designs for the new fire hydrants made last year have been revised. The interior working parts have been simplified, so that a saving of at least twenty per cent. in the cost of manufacture should result. Designs are now being made for jigs, templets, etc., to be used for making the various parts, which will greatly facilitate the making of the hydrants in the shop.

Plans for extending the Upper Service to the section east of Jones' Falls have been prepared. These include designs for a steel stand pipe and masonry tower; plans for necessary changes in the piping system at the Western Pumping Station; special construction for carrying the force main over Cedar avenue bridge, and for the force main to the standpipe.

The force main is now well under way, and as soon as the lot is purchased for the standpipe a contract can be let for the erection of the steel work and tower.

Plans and specifications were prepared for a new system of movable screens for the screen well in Druid Lake, as the old screens which had been in service since the lake was built were found to be defective. The new screens are of heavy wood frames and copper wire mesh, working on steel guides.

A light derrick is located on the cast iron deck of the well for hoisting out the screens. A contract was let to the Ellicott Machine Company for erecting the work complete, and was satisfactorily executed by them.

In order to avoid the great amount of labor, time and difficulty experienced in unloading the large quantity of coal required for operating the dredge at Loch Raven a coal pocket was designed so that cars could discharge directly into

wagons or into the pocket to be hauled away when convenient. The work was executed by Mr. Daniel Harding, under contract with the Department.

The work of locating on the new series of map sections all the water mains in the city has progressed during the year. As this work is being done accurately from measurements taken on the ground it necessarily proceeds slowly.

Drawings have been prepared for a case in which to mount the sections so that they will be available for ready reference.

Borings to test the character of soil on the four sites considered as available locations for the proposed new High Service reservoir were made in April. On the Callaway site one hundred and eleven holes were bored to a depth of from three to twenty-three feet. On the Williams' site one hundred and fourteen holes were bored to a depth of from three to twenty-two and one-half feet. On the Keyworth site one hundred and twelve holes were bored to the depth of from three to nineteen and one-half feet. On the Dwyer site eighty-seven holes were bored to a depth of from three to twenty-one feet. The results were reported to you in detail at the time for submission to the commission appointed to purchase the site. Special earth augers were purchased, and special apparatus constructed for this work.

During the year the following changes were made in the service areas: On January 8 the district bounded by Federal street, Hopkins avenue, Lanvale street and Broadway was changed from Middle to High Service.

On May 15 north side of North avenue, between Tenth and Twelfth streets, and Tenth, Eleventh and Twelfth streets, between North avenue and Walbrook avenue, was changed from High to Upper Service.

On June 30 the district bounded by Twenty-third street, York road, North avenue and Oak street was changed from Middle to High Service.

On November 24 the district bounded by North avenue, Wolfe street, Lafayette avenue, Hopkins avenue, Federal

street, Bond street, Preston street and Greenmount avenue, and all the district north of North avenue and east of Belair road was changed from Middle to High Service.

On December 29 the ten-inch main in Pratt street, between Fremont and Parkin street, was changed from Low to Middle Service.

All of these changes were made under the supervision of this division without serious accidents.

All the meters in service have been regularly inspected, and quarterly readings taken as usual. The meter-testing apparatus at Gay street yard is in good condition, no repairs being required during the year.

During the year one hundred and thirty-two old Worthington meters, which have been in service a number of years without repairs, were taken out and repaired at the expense of the Department. Twenty of these meters were found to be registering correctly. Three over registered, one five per cent., one twenty per cent., and one twenty-seven per cent. Fifty-five failed to register at all. Fifty-four under registered from two to fifty-two per cent.

The repairs cost the Department $2,609.27. The earnings of these one hundred and thirty-two meters for the year 1902 was $20,017.04.

With these meters all in proper working order, and assuming that the same amount of water per annum will be used in the future as in the past, there will be an increase in revenue of $1,890.60.

I again take pleasure in reporting that all of the employees of this division have performed their duties well and conscientiously, and have responded cheerfully to every request I have made of them.

GENERAL OPERATIONS.

1. Laying out lines of large mains required for better circulation of water throughout the system, and smaller lines for supplying applicants for service connections, and for the general improvement of the water supply.

2. Estimating quantities of pipe, special fittings, valves, etc., for laying mains.

3. Locating all new service and meter supplies put in during the year, and keeping a record of the status of all service and meter supplies.

4. Locating all branches, valves, connections and fire hydrants inserted during the year.

5. Inspecting and reporting to the Collector of Water Rents and Licenses as to properties on joint private pipes. Investigating illegal connections and supplies.

6. Inspecting the general conditions of all meters in service, taking quarterly statements of meters and indicators, making drawings of the locations of new meters installed, testing new and old meters, testing indicators for disputed bills, and entering up meter accounts.

7. Plotting on the maps all mains laid in 1903, making plans for the extension of High and Middle Service areas.

8. Making plans and drawings as follows:

Cabinet for housing Venturi meters at Druid Lake Gatehouse.

Proposed standpipe location, Roland avenue and northern city limits.

Setting of Venturi meters.

Re-erecting bridge over Roland Run at Ruxton.

Repairs to dredging machine (Julia).

Carrying 6-inch main over Belt line bridge at Loney's lane.

Setting recording instruments at Loch Raven and Lake Roland.

Special 16-inch breeches pipe, 20x16 inches "Y" branches, 16x12 inches breeches pipe, etc., for the force main to proposed new standpipe.

Covering for 30-inch gate vault in Mount Royal Terrace.

24-inch manhole frame and cover.

Clamps, handles, etc., for earth augers.
Screens, guides, etc., in screen well in Druid Lake.
Special construction for carrying two 12-inch pipes over Cedar avenue bridge.
Steel work for proposed standpipe.
Coal pocket at Loch Raven.
Filter bed at mouth of Towson run at Lake Roland.
Cabinet for map sections.
New designs and details for single and double nozzle fire hydrants.
A large number of detail drawings for the new storehouse at Gay street yard.

9. Engineering work as follows:

Borings for re-erection of bridge over Roland Run at Ruxton.
Surveys for proposed standpipe.
Borings for proposed standpipe foundation.
Surveys for 16-inch force main in Druid Hill Park.
Levels for pipe line in Lakewood avenue.
Levels for pipe line in Remington avenue.
Levels for pipe line in McKean avenue.
Levels for pipe line in Third avenue.
Gauging and survey of Towson run for filter beds.
Surveys for borings on five reservoir sites.
Test borings on four reservoir sites.
Levels and locations of two 30-inch mains in Druid Lake on north side.
Surveys of two cases of pollution.
Inspection of one case of pollution.
Samples of water taken from three cases of pollution.
Maps and tables showing the improvement in the water service in 1896–1903.

10. Preparing specifications and contracts as follows:

Electric sign at Mount Royal Pumping Station.
Coal for city departments.

Coal pocket at Loch Raven.

Screens in screen well in Druid Lake.

Bronze inscription tablet for storehouse at Gay street yard.

Department supplies for 1904.

Specifications were prepared for a coal trestle at Loch Raven. These were not approved by the Board of Awards. Specifications have also been prepared for the proposed standpipe, awaiting the purchase of lot.

11. Resume of work done:

1903	New Branches Located.	Valves Located.	Service Connections Located.	Plumbing Connections Inspected	Private Pipe Inspection.	Fire Hydrants Located.	Meter Supplies Located.	Meters Read.	Meters Tested.	Special Inspections of Meters and Indicators.	Plans Made for Extension of Mains.	Miscellaneous Plans and Drawings.	Complaints Investigated.	Special Inspections of Property
Jan	7	12	58	75	.....	2	45	387	98	29	5	4	35	.....
Feb	7	17	67	33	.....	2	42	28	96	25	29	6	40	.....
March	16	22	189	73	.....	1	71	2328	90	32	12	18	88	.....
April	22	21	165	56	1	1	51	104	54	31	8	4	80	.....
May	15	27	243	94	.....	1	62	67	47	26	13	7	166	21
June	10	23	243	111	.....	2	33	2389	44	19	32	7	61	16
July	30	42	175	79	.....	5	52	264	241	42	29	2	122	8
Aug	25	64	232	89	.....	6	59	299	68	17	30	6	107	10
Sept	37	54	254	90	.....	15	38	2227	57	22	4	2	93	7
Oct	32	64	191	91	1	4	72	307	60	64	12	7	135	17
Nov	15	17	121	70	.....	.....	83	343	33	37	12	5	55	4
Dec	10	18	116	75	.....	.....	34	2308	27	13	2	.....	30	7
Totals	226	381	2954	936	2	39	642	11051	912	357	188	68	1012	90

Respectfully submitted,

ROBERT L. CLEMMITT,

Assistant Engineer.

REPORT ON THE WATER CONSUMPTION BY THE CITY FOR THE YEAR 1903.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
LOW SERVICE.													
By Venturi meter No. 223					404,380,000	363,115,000	430,879,640	419,800,000	412,850,000	379,406,000	343,082,000	334,550,000	
By Venturi meter No. 224					242,240,000	254,640,000	297,830,000	287,730,000	290,480,000	317,395,000	294,865,000	284,900,000	
By open valves from Middle Service						110,000,000							
Total Low-Service consumption	803,612,234	521,679,736	537,975,108	498,002,925	646,620,000	727,755,000	728,709,640	707,530,000	703,330,000	696,801,000	637,947,000	619,450,000	7,829,412,643
MIDDLE SERVICE.													
By Venturi meter No. 220					178,270,000	124,100,000	123,990,000	114,400,000	127,410,000	70,990,000	136,595,000	109,265,000	
By Venturi meter No. 221					156,180,000	109,860,000	114,150,000	156,970,000	153,460,000	128,320,000	124,660,000	141,580,000	
By Venturi meter No. 222					162,225,000	239,062,500	228,390,000	236,390,000	197,200,000	88,490,000	174,380,000	152,000,000	
By 6-inch meter No. 10900					11,745,619	7,695,349	223,032	17,405,980	1,828,000	1,099,560	688,160	11,968,000	
By 6-inch meter No. 20900					19,200,000	3,904,438	15,836,692	2,800,000	46,000,000	56,160,000	21,600,000		
By Eastern Pumping Station	47,100,000	28,800,000	25,000,000	72,000,000		110,051,229		4,177,577					
By Mt. Royal Pumping Station	72,475,000	66,850,000	173,740,664	395,881,581		72,258,531	122,733,750	7,329,583	77,823,225	295,776,970		8,511,623	
Less amount supplied L. S. by open valves						110,000,000							
Less amount registered by influent registers of Venturi meters Nos. 220						29,900,000	31,160,000	3,510,000	25,690,000	3,010,000		2,780,000	
Less amount registered by influent registers of Venturi meters Nos. 221						10,110,000		1,200,000		16,330,000			
Less amount registered by influent registers of Venturi meters Nos. 222									90,000				
Total Middle Service consumption	535,943,899	427,862,289	552,114,652	549,654,366	527,620,619	516,922,047	514,163,474	534,763,140	577,941,225	621,496,530	457,923,160	420,574,623	6,296,980,024
EASTERN HIGH SERVICE.													
By Eastern Pumping Station	193,985,881	193,247,478	228,892,514	222,530,447	279,224,872	260,149,336	317,163,942	269,004,911	288,529,993	289,869,578	266,936,631	258,981,442	
Rainfall in Guilford Reservoir, in inches	4.02	4.84	3.91	3.06	2.15	7.43	5.50	6.62	0.97	2.94	0.61	2.37	
Rainfall in Guilford Reservoir, in gallons	757,754	912,321	737,019	576,798	426,302	1,452,565	1,090,540	1,202,613	192,331	582,943	120,950	469,923	
Loss in Guilford Reservoir, in gallons				376,992					1,785,000			125,000	
Less amount registered by meter 20900					19,200,000	3,904,438	15,836,692	2,800,000	46,000,000	56,160,000	21,600,000		
Less gain in Guilford Reservoir, in gallons	471,240	565,488			1,000,000			230,000		90,000	900,000		
Total Eastern High Service consumption	194,272,395	193,594,311	229,629,533	223,484,237	259,451,174	257,697,463	302,417,790	267,177,524	244,507,324	234,202,521	244,557,581	259,576,365	2,910,568,218
WESTERN HIGH SERVICE.													
By Mt. Royal Pumping Station	387,391,565	347,332,539	415,820,382	461,158,271	506,930,287	509,136,398	549,035,509	542,197,729	534,706,286	543,886,358	493,712,291	477,357,492	
By Western Pumping Station					31,444,488	3,808,440							
Rainfall in High Service Reservoir, in inches	4.33	4.71	4.83	3.43	3.14	7.00	7.37	5.93	1.25		0.64	2.24	
Rainfall in High Service Reservoir, in gallons	637,982	693,971	711,652	505,376	400,902	892,500	940,979	757,118	159,595	509,427	81,712	285,991	
Loss in High Service Reservoir, in gallons	1,178,720		368,350	3,094,140				300,000			430,000		
Less amount registered by meter 10900					11,745,619	7,695,349	223,032	17,405,980	1,828,000	1,099,560	688,160	11,968,000	
Less gain in High Service Reservoir, in gallons		515,690			275,000				1,450,000	700,000		425,000	
Less amount used by fountain, Druid Lake					1,200,000	4,050,000	5,600,000	5,850,000	6,300,000	4,550,000	300,000		
Total Western High Service consumption	389,208,267	347,510,820	416,900,384	464,757,787	525,555,058	502,091,989	544,153,456	519,998,867	525,287,881	538,046,225	493,235,843	465,250,486	5,731,997,063
WESTERN UPPER SERVICE.													
By Western Pumping Station	7,004,016	7,738,272	7,870,968	7,796,592	12,199,608	10,642,464	12,546,432	10,710,216	10,808,064	10,179,000	9,463,968	8,649,864	115,609,464
EASTERN UPPER SERVICE.													
By Western Pumping Station													
Total consumption by the city	1,930,040,811	1,498,385,428	1,744,490,645	1,743,695,907	1,971,446,459	2,015,108,963	2,161,990,792	2,040,179,747	2,061,874,494	2,100,725,276	1,843,127,552	1,773,501,338	22,884,567,412
Average consumption per day	62,259,381	53,513,765	56,273,891	58,123,197	63,595,047	67,170,299	69,741,639	65,812,249	68,729,150	67,765,332	61,437,585	57,209,720	62,697,445
Average consumption per capita per day	119	102	107	110	121	128	123	125	129	128	117	109	119

Total consumption through meters for the year ..... 5,474,298,892 gallons
Average " " " per day ..... 14,996,055 "

Figures for January, February, March and April computed by Mr. Wm. Benthall, Superintendent County Division.

ROBERT L. CLEMMITT,
Assistant Engineer.

FLOW, CONSUMPTION AND WASTE, GUNPOWDER SUPPLY, 1903.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.	Grand Total.
Consumed by the city	1,504,564,680	1,157,909,753	1,381,428,668	1,649,573,224	1,432,775,159	1,569,350,494	1,717,642,841	1,530,239,800	1,604,389,504	1,826,333,906	1,398,595,922	1,364,300,557	18,137,104,508	
Waste from drain gates, Lake Clifton														
Waste over waste weirs, Lake Clifton	413,637	759,394	161,575	161,575	3,996,000	1,026,000	2,145,600	1 512,000	514,800	2,242,200	3,192,000	3,254,820	19,379,601	
Waste from drain gates, Lake Montebello	8,168,450	18 095,575	3,377,850	8,685,300	29,167,344	1,939,850		5,806,560	8,245,187	45,121,627	51,543,220	5,364,895	185,515,858	
Waste over waste weirs, Lake Montebello	14,659,612	19,755,555	10,600,084	20,086,133	68,899,600	20,160,000	28,382,400	24,422,400	34,876,800	51,408,000	91,453,600	60,171,240	444,875,424	
Waste from drain gates, Loch Raven	1,311,117,320	906,975,340	1,612,344,642	2,051,946,418	2,287,492,379	3,261,582,547	3,175,065,585	3,010,716,502	3,070,046,741	2,000 481,219	2,373,447,057	1,862,704,188	26 923,919,938	
Clear water over Loch Raven dam	6,233,665,951	6,321,362,651	7,456,994,287	8,980,279,035	6,376,290,320	2,625,000,000	1,979,500,000	3,250,000,000	1,498,250,000	1,998,300,000	1,471,500,000	1,567,125,000	49,758,267,244	
Muddy water over Loch Raven dam	13,632,157,768	3,779,118,120	6,410,872,649	4,596,208,829	1,226,209,680	7,585,000,000	3,714,500,000	1,787,500,000	687,000,000	1,539,000,000		2,512,000,000	47,469,567,046	
Gain in Lake Clifton, in gallons		19,867,676	12,525,274	22,459,112		31,700,000	21,200,000		28,950,000	20,750,000		80,000	157,532,062	
Gain in Lake Montebello, in gallons		34,124,945	17,847,945	40,624,875		59,500,000	39,500,000		50,750,000	40,800,000			283,174,765	143,379,336,446
Rainfall in Lake Clifton, in inches	4.17	5 75	4.81	3 79	3.47	7.51	7.04	5.99	1.81	3.46	0.70	2.50	51 00	
Rainfall in Lake Clifton, in gallons	3,602,096	4,966,919	4,154,936	3,273,847	2,997,871	6,488,189	6,082,138	5,175,000	1,863,731	2,989,232	604,758	2,159,850	44,358,567	
Rainfall in Lake Montebello, in inches	3.96	4.85	4.41	3.51	2.75	8.16	7.90	6.89	1.99	3.54	0.77	2.39	51.12	
Rainfall in Lake Montebello, in gallons	6,434,980	6,881,226	7,166,228	5,703,732	4,615,358	13,695,026	13,258,665	11 570,569	3,339,840	5,941,224	1,292,300	4,011,160	83,910,308	
Loss in Lake Clifton, in gallons	44,918,224				30,510,000			10,090,000			950,000		86,468,224	
Loss in Lake Montebello, in gallons	68,249,790				62,000,000			40,420,000				550,000	171,219,790	
Spring water entering tunnel	93,000,000	84,000,000	93,000,000	90,000,000	93,000,000	90,000,000	93,000,000	93,000,000	90,000,000	93,000,000	90,000,000	93,000,000	1,095,000,000	1,480,956,889
Total flow of stream per month	22,488,542,328	12,162,120,864	16,801,858,810	17,271,046,922	11,231,707,253	15,045,075,676	10,565,595,623	9,449,941,693	6,887,819,461	7 422,506,496	5,296,884,741	7,275,279,690		141,898,379,557
Average flow of stream per day	725,436,849	434,361,459	542 092,220	575,701,563	362,313,137	501,502,522	340,825,665	304,836,829	229,593,982	239,435,693	176,562,825	234,686,441		388,762,684
Total waste per month	21,200,182,738	11,046,066,635	15,494,351,087	15,657,367,290	9,992,055,323	13,494,708,397	8,899,593,585	8,079,957,464	5,298,933,528	5,636,553,046	3,991,135,877	6,010,620,143		124,801,525,113
Average waste per day	683,876,875	394,502,380	499,817,454	521,912,243	322,324,365	449,790,279	287,083,664	260,643,787	176,631,117	181,824,292	133,037,863	193,890,972		341,921,986
Average amount sent to city per day	48,534,345	41,353,920	44,562,216	54,985,774	46,218,553	52,311,683	55,407,833	49,362,574	53,479,650	58,913,996	46,619,864	44,009,695		49,690,697

Figures for January, February, March and April computed by Mr. Wm. Benthall, Superintendent County Division.

ROBERT L. CLEMMITT,
Assistant Engineer.

FLOW, CONSUMPTION AND WASTE, JONES' FALLS SUPPLY, 1903.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.	Grand Total.
Consumed by the city	423,372,915	339,950,561	353,373,988	89,869,377	539,119,096	443,413,404	442,316,432	507,910,216	456,798,064	274,089,000	444,798,968	408,744,864	4,723,756,885	
Waste from Druid Lake												289,975,000	289,975,000	
Waste from Harper's waste weir														
Waste from drain gates at Lake Roland	440,263,505	290,240,354	1,012,859,700	1,282,532,468	103,520,073	370,186,946	323,768,667	113,698,738	115,462,885			82,860,746	4,135,394,082	
Clear water over Lake Roland dam	681,022,861	1,274,929,408	219,369,457	186,566,033	1,081,850,000	316,938,092	218,833,300	325,647,000		546,450,000	200,900,000	258,000,000	5,310,506,151	
Muddy water over Lake Roland dam	1,186,261,336		1,115,419,835	965,968,780		401,228,574	218,208,332	61,000,000	40,000,000				3,988,086,857	
Gain in Druid Lake, in gallons		37,897,200		45,792,450		19,900,000			139,700,000	10,000,000	14,000,000		267,289,650	
Gain in Hampden Reservoir, in gallons		1,951,830		20,168,910		3,700,000			18,850,000	400,000	1,750,000	125,000	46,945,740	18,761,954,365
Rainfall in Druid Lake, in inches	3.80	4.64	4.57	3.11	3.14	7.07	7.15	5.93	1.44	3.99	0.54	2.24	42.98	
Rainfall in Druid Lake, in gallons	6,000,390	7,326 792	7,216,259	4,910,846	4,851,300	10,822,150	11,046,750	9,161,850	2,224,800	6,164,550	834,300	3,460,800	74,020,787	
Rainfall in Hampden Reservoir, in inches	4.87	4.79	5.10	3.76	2.48	6.92	7.50	5.01	1.07	4.10	0.74	2.39	48.73	
Rainfall in Hampden Reservoir, in gallons	1,056,157	1,038,807	1,116,037	815,431	539,835	1,500,833	1,626,517	1,086,513	232,049	889,163	160,483	518,316	10,580,141	
Loss in Druid Lake, in gallons	82,110,600		101,059,200		3,000,000		1,700,000	30,480,000					218,349,800	
Loss in Hampden Reservoir, in gallons	2,277,135		19,952,040		250,000		250,000	16,100,000					38,829,175	341,779,903
Total flow of stream per month	2,639,476,335	1,936,603,754	2,571,679,444	2,585,171,741	1,715,848,034	1,543,044,033	1,188,503,464	951,427,591	768,354,100	823,885,287	660,454,185	1,035,726,494		18,420,174,462
Average flow of stream per day	85,144,398	69,164,419	85,722,648	86,171,718	55,349,936	51,444,801	38,338,821	30,691,213	25,611,803	26,576,944	22,015,139	33,410,532		50,466,231
Total waste per month	2,307,547,702	1,565,169,762	2,347,648,992	2,435,067,281	1,185,370,073	1,088,353,632	760,810,299	500,345,738	155,462,885	546,450,000	200,900,000	630,835,746		13,723,962,110
Average waste per day	74,437,023	55,898,920	75,730,613	81,168,909	38,237,744	36,278,454	24,542,268	16,140,185	5,182,096	17,627,419	6,969,666	20,349,540		37,599,896
Average amount sent to city per day	13,624,933	12,141,091	11,779,133	2,995,646	17,390,939	14,737,113	14,268,272	16,384,200	15.226,602	8,841,580	14,826,632	13,185,318		12,966,456

Figures for January, February, March and April computed by Mr. Wm. Benthall, Superintendent County Division.

ROBERT L. CLEMMITT,
Assistant Engineer.

CONSTRUCTION DIVISION.

BALTIMORE, December, 31, 1903.

MR. A. M. QUICK, *Water Engineer.*

DEAR SIR:—I respectfully submit herewith my report of the work of the Construction Division for the year 1903.

The cost of laying pipe per lineal foot on extension of mains for 1903 has increased somewhat owing to the more conflicting work. There was no 20-inch pipe laid in 1902; but, if referred to 1901 work, it will be observed it was laid cheaper in 1903, and is as follows:

6-inch A, .02 $\frac{7}{10}$c.; 6-inch B., .01 $\frac{3}{10}$c.; 10-inch A., .07 $\frac{6}{10}$; 20-inch pipe, 1901, 3.59 $\frac{6}{10}$; 20-inch pipe, 1903, 3.42 $\frac{3}{10}$, 17 $\frac{3}{10}$ c. less in 1903.

A comparative statement of new service connections inserted during the year 1902 and 1903 will show an increased profit for 1903, also a reduction in labor cost per service.

	1902	1903
Number of services	2,051	1,855
Labor per service	$2 07	$2 03
Number of feet lead lined pipe	32,185	28,376 $\frac{10}{12}$
Cost per lineal foot	$ .55 $\frac{51}{100}$	54 $\frac{2}{100}$
Amount received for inserting services	$19 724 00	$17,312 00
Cost of inserting services	17,864 11	15,327 34
Profit	$ 1,859 89	$ 1,984 66

Respectfully submitted.

GEORGE R. TRUELOVE,
Superintendent Construction Division.

SPECIAL WORK DONE BY THE CONSTRUCTION DIVISION.

Boring test wells for reservoir sites:

Edmondson avenue and western city limits.
Callaway site.
William's site.
Keyworth site.

Private pump-handles removed and pumps crippled and posted by order of Health Department:

March 14. 234 Union avenue, Woodberry.
May 25. 112 Montebello avenue.
June 2. 228 Union avenue, Woodberry.
November 9. Park Heights avenue and First street.

Loney's lane and Sinclair lane crossing over B. & O. R. R. bridge, 6-inch line.

Cedar avenue bridge crossing over N. C. R. R., two 12-inch lines for Roland avenue standpipe.

Clifton Park gate-house, replaced 1-inch L. L. pipe around gate-house with 2-inch cast-iron and reconnected four hose connections.

May 19. North avenue, opposite McMechen street, bursted 36x36-inch 3-way branch. Was reported 2.30 P.M., May 19, bad leak on force line. Foreman Maskell was put in charge of leak, and the main was shut off at 3 P.M. Foreman Maskell made temporary connections at North avenue and Elm street, and water was pumped through 30-inch main on south side North avenue into 36-inch force line during the repairs to bursted branch, which was cut out and new 36-inch branch inserted. There were seven 36-inch cuts made to get bursted branch out. There were eleven 36-inch joints made on connections after 36-inch branch was inserted. There was a brick foundation and brick backing inserted under and back of 36-inch branch. Work was completed and water turned on May 25, 1903.

NEW MAINS LAID.

Blue Print Number.	Location.	Size in inches.
02220	Frederick ave., bet. Mount st. and Fulton ave...	20-inch
02221	Saratoga st., bet. Mount st. and Fulton ave.....	20-inch
02240	North ave., bet. Oliver and McMechen sts.....	30-inch
02266	Catherine st., bet. McHenry and Pratt sts.....	6-inch
02271	Durham st., bet. Monument and Madison sts...	6-inch
02273	Alley n. of Dolphin st , w. from Etting st.....	6-inch
02279	Parrish alley, n. and s. of Mulberry st.....	4-inch
02281	Norris al., bet. Lanvale st. and Lafayette ave...	6-inch
02283	Peirce st., bet. Bruce and Mount sts.....	3-inch
02296	Stricker st., bet Fayette and Lexington sts.....	6-inch
02333	North ave., bet. Linden and Callow aves.....	6-inch
02334	Oliver st., bet. Patapsco and Luzerne st.....	6-inch
02335	Alleys bet. Patapsco st. and Kenwood ave..... and Fairmount ave. and Fayette st.	6-inch
02337	Lakewood avenue, bet. Monument street and Ashland avenue.....	6-inch
02338	Alley n. of Fayette st., bet. Collington ave. and Madeira alley.....	4-inch
02342	Hoffman st., bet. Bolton and Brevard sts.....	30-inch
02344	Park av., bt. Whitelock st. and Mt. Royal ave..	6-inch
02347	Montford ave., bet. Gay st. and Lafayette ave..	6-inch
02349	Federal st., bet. Gay st. and Madeira alley.....	6-inch
02350	Milton av., bt. Baltimore st. and Fairmount av.	6-inch
02352	Oakfield av., bet. Main st and Forrest av	6-inch
02360	Riggs ave., bet Payson and Appleton sts.....	6-inch
02363	Cedar ave., bet. Bridge and First ave.....	12 and 16-inch
02365	Cedar ave., bet. First and Third aves.....	16-inch
02366	Third ave., bet. Cedar and Roland aves.....	16-inch
02370	Montgomery st., e of Covington st.....	6-inch
02373	Druid Hill Park, w of Cedar ave. bridge.....	16-inch
02376	Loney's lane, bet. Sinclair and Duncan lanes...	6-inch
02381	Christian st., bet. Bentalou and Smallwood sts..	6-inch
02382	Ashland av , bt. Milton and Patterson Park avs	20-inch
02386	Preston st , bet. Patapsco and Potomac sts	10-inch
02392	Calhoun st., bet. Lemmon and McHenry sts....	6-inch
02393	Northwest st., bet. Payson st. and Friendsbury Place.....	6-inch
02394	Durham st., bet. Jefferson and Orleans sts.....	6-inch
02395	Old Pimlico road and Northern Boundary line..	6-inch
02397	Maryanna st., bet. Smallwood and Pulaski sts...	6-inch

Blue Print Number.	Location.	Size in inches.
02399	Mount st , bet. Reese and Valley sts	6-inch
02401	Christian st., bt. Smallwood and Pulaski sts	6-inch
02402	Wilkens ave. and Bentalou st	6-inch
02403	Pulaski st., bet. Christian and Ramsay sts	6-inch
02428	Eastern ave., bet. Patuxent and Canton sts	6-inch
02429	Central ave., bet. Bank and Pratt sts. to Ellen st.	6-inch
02430	Ashland ave. and Madeira alley	6-inch
02431	Fait ave., bet. Harrison and Potomac sts	6-inch
02441	Walbrook ave. and Monroe st	6-inch
02452	Mulberry st., bet. Courtland st. and Lovegrove al.	6-inch
02453	Pleasant and Mulberry sts., bet. Courtland st. and Hargrove alley	6-inch
02459	Alley s. of Patterson ave., bet. Fulton ave. and Mount st	6-inch
02460	Montebello ave. and Jefferson st	6-inch
02462	Conway st., bet. Hanover and Sharp sts	10-inch
02463	Park ave., s. of Baldwin st	6-inch
02467	Remington ave , bet. Twenty-ninth and Thirtieth sts	6-inch
02471	Smallwood st., bet. Walbrook and North ave	6-inch
02472	W. s. Paca st., bt. Mulberry st. and Arcade al	6-inch
02473	Division st., bet. Bloom and Presstman sts	6-inch
02474	Robert st., bet. Penna ave. and Boulden st	6 inch
02475	Laurens st., bet. Penna. ave. and Boulden st	6-inch
02476	Bloom st., bet. Penna ave and Boulden st	6-inch
02477	Charles st., bet. Pratt and Lombard sts	8-inch
02478	Laurens st., bet. Division and McCulloh sts	6-inch
02479	Rupert st., s of Montgomery st	4-inch
02481	Oliver st., bet. Durham and Wolfe sts	6-inch
02484	Alley e. of Bayard st., bet. James st. and Glyndon ave	6-inch
02488	Park Terrace, bet. Madison ave. and McCulloh street	6-inch
02489	Balderston st., bet. Light and Charles sts	6-inch
02491	Druid Hill ave., bet. Robert and Laurens sts	6-inch
02492	Conway st., bet. Warner and Greene sts	6-inch
02493	Hollins st. and Frederick ave	6-inch
02494	Parrish al., bet. Lafayette ave. and Mosher st	6-inch
02495	Arcade alley, bet. Greene and Paca sts	6-inch
02496	Clement st., bet. Towson and Andre sts	6-inch
02499	McKeen ave., s. of Walbrook ave	6-inch

Blue Print Number.	Location.	Size in inches.
02500	Montford ave., s. of Chase st	6-inch
02504	Lambert st., e. of Pennsylvania ave.	6-inch
02506	Alley e. of Kenwood ave., n. from Fairmount avenue	6-inch
02510	Boone st., bet. Twenty-first and Twenty-second streets	6-inch
02511	Eager st., bet. Charles and Cathedral sts	6-inch
02512	Chase st., bet. Hargrove and Hunter alleys	6-inch
02513	Bradford st., bet. Ashland ave. and Madison st.	6-inch
02528	Wilhelm st., bet. Fulton ave. and Monroe st.	6-inch

Pipe laid on extension of main:

46 6/12	feet	2-inch
1,225 3/12	"	3-inch
1,921 7/12	"	4 inch
31,293 5/12	"	6-inch
381	"	8-inch
1,661	"	10-inch
962	"	12-inch
6,105	"	16-inch
1,660 6/12	"	20-inch
896	"	30-inch
46,152 3/12	feet.	

MAIN CONNECTIONS.

Blue Print Number.	Location.	Size in inches.
01820	Saratoga st., w. of Greene st	6-inch
01889	Allison alley and O'Donnell's wharf Mill street and Eastern avenue	10-inch
02004	Mulberry st., bet. Paca st. and Diamond alley	20-inch
02006	Mulberry st., w. from Greene st	20-inch
02010	Paca st. n. from Franklin st	20-inch
02013	Eutaw st., bet. Lexington and Clay sts	6-inch
02017	Lexington st., bet. Eutaw and Howard sts	10 inch
02021	Diamond alley, bet. Baltimore and Fayette sts.	3 and 6-inch
02030	Fayette st., between Arch and Pearl sts.	10-inch
02067	Myrtle ave., bet. Lexington and Saratoga sts	10-inch
02069	Myrtle ave., bet. Saratoga and George sts.	10-inch
02070	Mulberry and Ogston sts	2 and 4-inch
02072	Baltimore st., bet. Pine and Pearl sts	6-inch

Blue Print Number.	Location.	Size in inches.
02078	Pine st., bet. Mulberry and Vine sts	6-inch
02080	Paca st., between German st. and Garrett alley	2-inch
02083	Dolphin st., between McCulloh and Brighton streets	20-inch
02179	Eager st., between Hillen and Ensor sts	30-inch
02200	Aliceanna st., bet. Chester and Boston sts	10-inch
02250	Western Pumping Station	16 and 20-inch
02253	Wolfe st., bet. Eastern ave. and Aliceanna st	10-inch
02254	Eastern ave., bet. Broadway and Washington st	20-inch
02256	Fayette st., bet. Amity st. and Fremont ave	10-inch
02257	Poppleton st., bet. Baltimore and Hollins sts	6-inch
02258	Poppleton st., bet. Baltimore and Lexington sts	6-inch
02265	Alley south of Dolphin streeet Alley bet. Jordan al. and Linden ave. n. from Hoffman street	6-inch
02268	Eastern ave., Chestnut and Locust sts., bet. McElderry's wharf and W. Falls avenue	6-inch
02278	Lafayette and Arlington aves	6-inch
02280	Franklin and Gilmor streets	6-inch
02285	Edmondson ave., bet. Mount st. and Fulton ave	4-inch
02287	Mount and Cairo streets	3-inch
02288	Harlem ave., bet. Gilmor and Mount sts	10-inch
02289	Mount st., bet. Lanvale st. and Edmondson ave	10-inch
02290	Arlington ave., bet. Harlem and Edmondson avenues	10 and 20-inch
02291	Harlem ave., bet. Carrollton and Arlington aves	6-inch
02292	Mount and Lexington streets, and alleys n. and s. of Lexington street	20-inch
02293	Mount st., between Baltimore and Fayette sts	20-inch
02294	Mount st , bet. Baltimore and Lombard sts	20-inch
02295	Stricker st., bet. Harlem and Lafayette aves	10-inch
02297	Carey st., bet. Mosher st. and Lafayette ave	20-inch
02299	Carrollton ave., bet. Lafayette ave. and Mosher street	10-inch
02302	Edmondson ave., bet. Carrollton ave. and Carlton street	4-inch
02303	Arlington ave., between Edmondson ave. and Peirce street	10 and 20-inch
02304	Arlington ave., bet. Saratoga and Mulberry sts.	20-inch
02305	Harlem ave., bet. Calhoun and Gilmor sts	10-inch
02306	Harlem ave., bet. Carrollton ave. and Calhoun street	10-inch

Blue Print Number.	Location.	Size in inches.
02308	Dolphin st., bet. Shields and Wilmer alleys.....	20-inch
02313	Fairmount ave., bet. Collington and Milton aves	6-inch
02314	Patterson Park ave., between Fayette st. and Fairmount avenue.....	10-inch
02331	Moore al., bet. Druid Hill ave. and L. Monument street.....	4-inch
02340	Schroeder st., bet. Mulberry and Baltimore sts..	20-inch
02348	Gay and Monument sts., bet. Forrest st. and Central avenue.....	10-inch
02359	Stricker and Carey sts., bet. Baltimore and Ramsay streets.....	8 and 10-inch
02361	Hare st., bet. O'Donnell and Elliott sts..	4-inch
02383	Carlton st., bet. Franklin st and Edmondson ave	4-inch
02396	Carlton st., bet. Hollins and Lombard sts.....	6-inch
02398	Mount st., bet Lemmon and McHenry sts.. ...	20-inch
02404	Hollins and Stricker sts.....	10-inch
02405	McHenry st., bet. Forrest and Addison sts.....	6 and 20-inch
02408	Bentalou and Maryanna sts.....	6-inch
02409	Ramsay st., bet. Gilmor and Parrish sts.....	10-inch
02410	Payson st., bet. Christian and Eagle sts.....	6-inch
02411	Mosher st., bet. Stricker and Whatcoat sts.....	10-inch
02412	Mosher st., bet. Carrollton and Arlington aves.	10-inch
02413	Riggs ave., bet. Vincent and Parrish alleys.....	10-inch
02414	Fulton ave., bet. Ramsay st. and Wilkens ave....	20-inch
02415	Gilmor st., between Hollins and Baltimore sts.	6-inch
02416	Calhoun st., bet. Booth and Boyd sts.....	6-inch
02432	Lombard and Washington sts.....	20 and 40-inch
02433	Windsor and Stricker sts.....	10-inch
02450	Franklin st., bet. Calvert st. and Hargrove al.....	20-inch
02451	Mulberry st., bet. Paca and State sts.....	20-inch
02455	Oak st., bet. Twenty-third and Twenty-fifth sts.	4-inch
02457	Bond st., bet. Preston and Oliver sts.....	20-inch
02468	Gay st. and Lafayette ave.....	10-inch
02502	Hope st., bet. Lafayette ave. and Lanvale st.....	4-inch

ABANDONED MAINS AND CHANGED SERVICES.

LOCATION.	Size of Mains Abandoned.	Size of Mains Connected to.	Length in Feet.
Baltimore st., bet. Pine and Pearl sts	1½ in	6 in	375
Carlton st., bet. Lombard and Hollins sts	1½ in	6 in	200
Central ave , bet. Bank and Pratt sts	1½ in	6 in	200
Durham st., bet. Monument and Madison sts	2 in	6 in	200
Poppleton st., bet. Hollins and Boyd sts	2 in	6 in	125
Pine st., bet. Baltimore and Raborg sts	2 in	6 in	190
South side Fayette st., bet. Park ave. and Liberty st	2 in	4 in	125
Mulberry st., w. of Greene st	2 in	20 in	200
Mulberry st., bet. Courtland st. and Lovegrove alley	2 in	20 in	350
Saratoga st., bet. Greene and Pearl sts	2 in	6 in	150
Hope st., bet. Lanvale st. and Lafayette ave	2 in	4 in	325
Eager st., bet. Charles and Cathedral sts	2 in	6 in	100
Mill st., s. of Pratt st	3 in	8 in	1000
O'Donnell's wharf, s. of Pratt st	3 in	10 in	625
Allison alley, s. from Pratt st	3 in	10 in	875
Mill st., bet. Pratt and Chestnut sts	3 in	8 in	1000
Chestnut st., bet. Mill st. and McElderry's wharf	3 in	6 in	100
Concord st., s. of Eastern ave	3 in	6 in	150
Durham st., between Monument and Madison streets	3 in	6 in	125
Eastern ave., bet. Washington st. and Broadway	3 in	20 in	640
Wolfe st., bet. Eastern ave. and Aliceanna st	3 in	10 in	875
Poppleton st., bet. Baltimore and Hollins sts	3 in	6 in	375
Hollins st., bet. Poppleton and Amity sts	3 in	20 in	250
Baltimore st., bet. Pine and Pearl sts	3 in	6 in	250
North ave., bet. Linden and Callow aves	3 in	6 in	250
Mount st., bet. Baltimore and Saratoga sts	3 in	20 in	750
Central ave., bet. Monument and Jefferson sts	3 in	16 in	600
Myrtle ave., bet. Saratoga and George sts	3 in	10 in	750
Harlem ave., bet. Carrollton and Arlington aves	3 in	10 in	75
Ramsay st., bet. Stricker and Calhoun sts.	3 in	10 in	375
Montgomery st., e. of Covington st	3 in	6 in	625
Fremont st., bet. Franklin st. and Harlem ave.	3 in	6 in	100
Greenwillow st., bet. Myrtle ave and Shields al	3 in	10 in	375

ABANDONED MAINS AND CHANGED SERVICES.

LOCATION.	Size of Mains Abandoned.	Size of Mains Connected to.	Length in Feet.
Mosher st., bet. Carrollton and Arlington aves.	3 in	10 in	375
Central ave., bet. Bank and Pratt sts	3 in	6 in	500
Dolphin st. bet. McCulloh and Brighton sts	3 in	20 in	875
Mulberry and Ogston sts	3 in	20 in	250
Mulberry st., bet. Courtland st. and Hargrove alley	3 in	6 in	125
Pleasant st., bet. Courtland st. and Hargrove al	3 in	6 in	125
Courtland st., bet. Saratoga and Mulberry sts..	3 in	20 in	650
Conway st., bet. Hanover and Sharp sts	3 in	10 in	375
W. S. Paca st., bet. Franklin and New sts	3 in	20 in	375
Pennsylvania ave and Fremont st	3 in	10 in	425
Laurens st., bet. Division and McCulloh sts	3 in	6 in	750
Madison ave. and Park Terrace	3 in	6 in	350
Arcade alley, bet. Greene and Paca sts	3 in	6 in	375
Eager st., bet. Charles and Cathedral sts	3 in	6 in	500
Chase st , bet. Hargrove and Hunter alleys	3 in	6 in	450
Eastern ave., bet. Mill st. and W. Falls ave	4 in	10 in	375
Locust and Conn sts	4 in	6 in	125
Eastern ave., bet. Washington st. and Broadway	4 in	20 in	1650
Eager st., bet. Hillman and Ensor sts	4 in	30 in	500
Aliceanna st., bet. Chester and Boston sts	4 in	10 in	500
Fairmount ave., bet. Collington ave. and Bradford al.	4 in	6 in	450
Fairmount ave., bet. Montford and Milton aves.	4 in	6 in	300
Patterson Park ave., bet. Fayette st. and Fairmount ave.	4 in	10 in	450
Fayette st., bet. Fremont ave. and Amity st	4 in	10 in	750
Poppleton st., bet. Baltimore and Lexington sts.	4 in	6 in	750
Saratoga st , bet. Mount st. and Fulton ave	4 in	20 in	500
Gay st., bet. Forrest and Monument sts	4 in	10 in	1050
Monument st., bet. Gay st. and Central ave	4 in	10 in	350
Schroeder st., bet. Mulberry and Baltimore sts.	4 in	20 in	1500
Mount st., bet. Baltimore and Lombard sts	4 in	20 in	550
Pine st., bet. Mulberry and Vine sts	4 in	6 in	100
Myrtle ave., bet. Lexington and Saratoga sts...	4 in	10 in	750
Stricker st., bet. Fayette and Lexington sts	4 in	6 in	375
Mount st., bet. Franklin and Mulberry sts	4 in	10 in	150

ABANDONED MAINS AND CHANGED SERVICES.

LOCATION.	Size of Mains Abandoned.	Size of Mains Connected to.	Length in Feet.
Harlem ave., bet. Carrollton and Arlington aves.	4 in	10 in	100
Norris al., bet. Lanvale st. and Lafayette ave..	4 in	6 in	375
Harlem ave., bet. Calhoun st. and Carrollton avenue	4 in	10 in	750
Harlem ave., bet. Calhoun and Gilmor sts	4 in	10 in	815
Harlem ave., bet. Gilmor and Mount sts	4 in	10 in	375
Stricker st., bet. Pratt and Ramsay sts	4 in	8 in	875
Pratt st., bet. Stricker st. and Stoddard alley...	4 in	6 in	250
Carey st., bet. Pratt and Booth sts	4 in	10 in	2000
Stricker st., bet. Harlem and Lafayette aves...	4 in	10 in	625
Carey st., bet. Pratt and McHenry sts	4 in	10 in	250
Mount st., bet. Edmondson ave and alley north of Harlem avenue	4 in	10 in	625
Edmondson ave., bet. Mount st. and Fulton ave.	4 in	6 in	500
Arlington ave., bet. Harlem and Edmondson avenues	4 in	20 in	500
Harlem ave., east of Arlington ave	4 in	20 in	175
Covington st., bet. Hughes st. and Warren ave.	4 in	10 in	625
Mount and Cairo sts	4 in	10 in	125
Arlington ave., bet. Edmondson ave and Peirce street	4 in	20 in	375
Franklin st., bet. Arlington ave. and Schroeder street	4 in	10 in	375
Fremont st., bet. Franklin st. and Harlem ave	4 in	6 in	125
Carrollton ave., bet. Lafayette ave. and Mosher street	4 in	10 in	750
Arlington ave., bet. Saratoga and Mulberry sts	4 in	20 in	375
Lexington st., bet. Welsh al. and Howard st....	4 in	10 in	375
Eutaw st., bet. Lexington and Clay sts	4 in	6 in	250
Dolphin st., bet. Shields and Wilmer alleys...	4 in	20 in	375
Carey st., bet. Mosher st. and Lafayette ave.....	4 in	20 in	250
Hollins st., bet. Calhoun and Mount sts	4 in	10 in	375
Stricker st., bet. Hollins and Booth sts	4 in	10 in	185
Mount st., bet. McHenry and Lemmon sts... ..	4 in	20 in	500
Payson st., bet. Christian and Eagle sts	4 in	6 in	500
Bentalou and Maryanna sts	4 in	6 in	135
Fulton ave., bet Ramsay st. and Wilkens ave...	4 in	20 in	250
Gilmor st., bet. Baltimore and Hollins sts	4 in	6 in	875

ABANDONED MAINS AND CHANGED SERVICES.

LOCATION.	Size of Mains Abandoned.	Size of Mains Connected to.	Length in Feet.
McHenry st., bet. Forrest and Addison sts	4 in	20 in	350
Monroe st., bet. McHenry and Pratt sts	4 in	6 in	125
Calhoun st., bet. Booth and Boyd sts	4 in	6 in	500
Mosher st., bet. Stricker and Whatcoat sts	4 in	10 in	135
Riggs ave., bet. Vincent and Parrish sts	4 in	10 in	400
Fayette st., bet. Arch and Pearl sts	4 in	10 in	300
E. and W. S. Paca st., bet. Mulberry st. and Arcade alley	4 in	6 and 20 in	875
Oak st., bet. Twenty-third and Twenty-fifth sts	4 in	12 in	600
Maryland ave., bet. Twenty-third and Twenty-fifth streets	4 in	4 in	1000
Twenty-third st, between Charles st. and Maryland avenue	4 in	4 in	300
Bond st., bet. Preston and Oliver sts	4 in	12 and 20 in	750
Preston st., bet. Bond and Dallas sts	4 in	12 in	200
Preston st., bet. Bond and Broadway	4 in	10 in	750
Cedar ave., bet. Front st. and First ave	4 in	10 in	2700
Towson st., bet. Clement and Beason sts	4 in	6 in	300
Eager st., bet. Charles and Cathedral sts	4 in	6 in	100
Wilhelm st., bet. Fulton ave. and Addison al	4 in	6 in	150
			35,745
Mulberry st., bet. Diamond al. and Paca st	4½ in	20 in	250
Mulberry st., between Paca and State sts	4½ in	20 in	650
Charles st., bet. Pratt and Lombard sts	4½ in	8 in	400
Balderston st., bet. Light and Charles sts	4½ in	6 in	300
			1,600
Mount st., bet. Baltimore and Saratoga sts	6 in	20 in	500
Fremont st., bet. Franklin st. and Harlem ave.	6 in	6 in	125
Ramsay st., bet. Gilmor and Parrish sts	6 in	10 in	175
Stricker st., bet Presstman and Windsor sts	6 in	10 in	150
Franklin st., bet. Calvert st. and Hargrove al	6 in	20 in	125
			1,075

TOTAL NUMBER OF FEET OF ABANDONED MAINS.

Size.	Feet.
1½ in	775
2 in	1,765
3 in	16,665
4 in	35,745
4½ in	1,600
6 in	1,075
	57,625

57,625 feet equal to $10\frac{4825}{5280}$ miles.

SERVICES CHANGED FROM ABANDONED MAINS.

⅝ in	360
¾ in	568
1 in	26
1½ in	35
2 in	111
Total	1,100

NEW PLUGS—NEW SITES.

LOCATION.	Size in inches.	Remarks
East side York road, north of Waverly avenue	5 in	
Southwest corner Liberty and Jefferson streets	5 in	
Northwest corner Covington street and Warren ave.	5 in	
Southwest corner Chesapeake and Preston streets	5 in	
Northwest corner Patuxent and Preston streets	5 in	
Northwest corner Potomac and Preston streets	5 in	
Southeast corner Durham and Monument streets	5 in	
Northwest corner Windsor and Stricker streets	5 in	
Southwest corner Oliver street and North avenue	5 in	
Southeast corner Park avenue and Hoffman street	5 in	
Northwest corner Clement and Beason streets	5 in	
Northwest corner Clement and Towson streets	5 in	
Southeast corner Hoffman and Brevard streets	5 in	
Northwest corner Pimlico road and Harwood avenue	5 in	
Northeast corner Fulton avenue and Saratoga street	5 in	
West side Park avenue, north of Whitelock street	5 in	
East side Loney's lane, north of Duncan lane	5 in	
Southwest corner High and Addison streets	8 in	D. N.
Northeast corner Lee and Charles streets	8 in	
Northwest corner Light and York streets	8 in	
Southeast corner Conway and Charles streets	8 in	
Northwest corner Howard and Clay streets	8 in	
Southwest corner Howard and Marion streets	8 in	
Northwest corner Liberty and Marion streets	8 in	
South side Saratoga street, opposite Tyson street	8 in	
South side of Mulberry street, east of Howard street	8 in	
Southwest corner Conway and Sharp streets	8 in	
South side Hoffman street, opposite Bolton street	8 in	
West side Howard street, north of Fayette street	8 in	

CHANGED SITE OF PLUGS.

Northeast to southwest corner Broadway and Lombard street	5 in	
West side Paca street, north of Fayette street, moved south	5 in	

PLUG ABANDONED.

Northwest corner Saratoga and Tyson streets	5 in	

NEW PLUGS—OLD SITES.

LOCATION.	Size in inches.	Remarks.
South side Lombard street, east of High street	4 in	
Southeast corner Orleans and Ann streets	4 in	
Southwest corner Biddle and Tessier streets	4 in	
Southwest corner Biddle street and Pennsylvania ave	4 in	
Northeast cor. Pennsylvania ave and St. Mary street	4 in	
Northwest corner Raborg and Pine streets	5 in	
Northwest corner Pratt and Scott streets	5 in	
Northeast corner Etting and Dolphin streets	5 in	
West side Paca street, south of Druid Hill avenue	5 in	
North side McHenry street, west of Mount street	5 in	
Southeast corner Hopkins ave. and Monument street	5 in	
Northeast corner Parkin and Boyd streets	5 in	
Southeast corner Paca and Hamburg streets	5 in	
Southwest corner Fremont and Pratt streets	5 in	
Southwest corner Poppleton and Saratoga streets	5 in	
Northwest corner Fayette and Liberty streets	5 in	
Southeast corner Lombard and Liberty streets	5 in	
Northwest corner Arlington avenue and Franklin st	5 in	
Northwest corner Monument street and Hargrove al	5 in	
Southeast corner Hopkins avenue and Madison st	5 in	
Northwest corner Park avenue and Franklin street	5 in	
Northeast corner Eastern avenue and Ann street	5-in	
East side Howard street, north of Madison street	5 in	
Northwest corner Gay and Water streets	5 in	
Southwest corner Mosher street and Foster alley	5 in	
Southeast corner Light and Baltimore streets	5 in	
Southwest corner Saratoga and Stricker streets	5 in	
Northeast corner Fremont and Raborg streets	5 in	
Northeast corner Bond and Preston streets	5 in	
Northwest corner Orleans and Castle streets	5 in	
Southwest corner Fremont and Baltimore streets	5 in	
Northwest corner Bond street and Eastern avenue	5 in	
Southwest corner High and Granby streets	5 in	
Southeast corner George and Brune streets	5 in	
Northwest corner Calvert street and Girard avenue	5 in	
Northwest corner Dolphin street and Jordan alley	5 in	
Southwest corner Hillen and Exeter streets	8 in	
Northwest corner Charles and Pratt streets	8 in	

MAINS LOWERED.

LOCATION.	Size of Mains.	Length in feet.
Catherine st., bet. Frederick ave. and McHenry st	6 in	300
Belview ave., bet. Eldorado and Granada aves	12 in	1100
Milton ave., bet. Baltimore st. and Fairmount ave	4 in	150
Twenty-ninth st., bet. Remington and Huntingdon avs	6 in	132
Arlington ave., bet York road and Ready ave	6 in	250
Montford ave. and 10-foot alley, n. of Jefferson st	3 in	150
Central ave. and Aliceanna sts	8 in	100
Johnson and Donaldson streets	4 in	350
	6 in	500
	10 in	200
Laurens and McCulloh sts	4 in	
Water and Concord sts	3 in	
Fort avenue and Race street	6 in	
Eastern avenue and Bethel street	3 in	
East Falls avenue and Stiles street	8 in	
Old York road and Tinges lane	6 in	Bill.
Lombard street and Franklin lane	3 in	
Southwest corner Calhoun and Franklin sts	3 in	
Lombard street, east of Sharp st	2 in	
Leadenhall st., south of Randall st	6 in	
Oak st. and alley north of North ave	3 in	

ABANDONED MAINS (Removed Pipe).

Oak and Twenty-first streets	20 in	33
	30 in	31

CHANGED LOCATIONS IN MAINS.

LOCATION.		Size in Inches.
Park ave. and Fayette st	(Bill)	2 in
Leadenhall and Stockholm sts	"	3 in
Baltimore st., between Eden and Spring sts	"	3 in
Wolfe st. and alley, north of Baltimore st	"	3 in
Camden and Eutaw sts	"	4 in
Calvert and Pleasant sts	"	4 in
Calvert and Bath sts	"	4 in
Charles and Fayette sts	"	4 in
Eastern ave and Washington st	"	4 in
Boyd st., near Schroeder st	"	4 in
Fayette st., between Park ave. and Howard street	"	4 in
Water and Holliday sts	"	6 in
Braddish ave., west of Liberty Road	"	6 in
Balderston and Light sts	"	6 in
Southeast cor. Liberty and Fayette sts	"	10 in

RAISING MAINS.

Eastern ave. and High st	(Bill)	3 in
High st., between Eastern ave. and Trinity st	"	3 in

RELAYING MAINS.

Curley st., between Baltimore st. and Fairmount ave	6 in

MAINS CUT OFF AND CAPPED.

15 South st	3 in
Lamont ave. and Ensor st	10 in

BILLED SUPPLIES.

21	Supplies	¾ in
79	"	1 in
20	"	1½ in
5	"	2 in
6	"	3 in
4	"	4 in
4	"	6 in
2	"	8 in

NEW FOUNTAINS—NEW SITES.

Blue Print Number.	LOCATION.
02284	Northwest corner Calhoun and Ramsay streets.
02321	Northwest corner Hillen and High streets.
02322	North side Maryanna street east of Payson street.
02345	Northwest corner Aisquith and Hoffman streets.
02384	Southwest corner Patterson Park avenue and Jefferson street.
02385	Southeast corner Chase street and Guilford avenue.
02434	Northwest corner Frederick avenue and Catherine street.
02470	Southeast corner Federal and Bethel streets.

NEW FOUNTAINS—OLD SITES.

Northwest corner Bond and Lancaster streets.
Southeast corner Monument and Wolfe streets.
Northeast corner Caroline and Aliceanna streets.
Northeast corner Eager street and Guilford avenue.
Northeast corner Caroline and Thames streets.

ABANDONED FOUNTAINS.

Northeast corner Harford avenue and Aisquith street.
Southeast corner Washington and Lanvale streets.
Northeast corner Hoffman and Aisquith streets.
West side Hanover street, north of McComas street.
North side Philpot street, between Caroline and Wills streets.

SERVICES DESTROYED BY ELECTROLYSIS AND REPAIRED BY THE DEPARTMENT.

Month.	Date.	LOCATION.	Size of Service	Kind of Service.
January	10	810 Light st	¾ in	L. L.
February	6	445 E. Fort ave	¾ in	L. L.
February	9	324 South Eutaw street	¾ in	L. L.
February	10	1318 South Charles street	1½ in	C. I.
March	3	1422 Light street	¾ in	L. L.
March	18	840 South Chesapeake street	¾ in	L. L.
March	21	829 Light street	¾ in	L. L.
April	27	322 South Eutaw street	¾ in	L. L.
May	13	809 East Pratt street	¾ in	L. L.
June	2	1038 Light street	¾ in	L. L.
June	3	Southwest cor. Light and Lee streets.	¾ in	L. L.
June	10	120 Warren avenue	¾ in	L. L.
June	19	1701 Light street	¾ in	L. L.
June	27	2438 South Charles street	¾ in	L. L.
July	1	327 West Henrietta street	¾ in	L. L.
July	3	314 South Eutaw street	¾ in	L. L.
July	22	1507 Light street	⅝ in	L.
July	23	500 West Fayette street	1½ in	C. I.
July	25	S. E. cor. Clement and Light streets	1 in	L. L.
August	17	Fort ave., near Fort McHenry Gate	¾ in	L. L.
August	22	1004 East Pratt street	¾ in	L. L.
September	14	N.W. cor. Greene st. and Columbia av	¾ in	L. L.
September	25	514 Colvin street	¾ in	L. L.
September	26	1010 East Pratt street	¾ in	L. L.
October	3	205 West Henrietta street	¾ in	L. L.
October	8	827 Light street	¾ in	L. L.
October	10	386 Waverly avenue	1½ in	C. I.
October	13	214 South Eutaw street	⅝ in	L.
October	16	632 Columbia ave	⅝ in	L.
October	17	1127–1129 Light street	¾ in	L. L.
October	20	423 North Eutaw street	1½ in	C. I.
October	22	916 Light street	¾ in	L. L.
October	23	756 St. Peter street	¾ in	L. L.
October	23	908 East Pratt street	¾ in	L. L.
November	17	91 Garrison lane	¾ in	L. L.
November	24	321 West Henrietta street	⅝ in	L.
November	28	1409 Light street	¾ in	L. L.
November	30	701 East Pratt street	1½ in	C. I.
December	2	1805 Light street	¾ in	L. L.
December	9	103 South Payson street	¾ in	L. L.
December	10	109-111 South High street	¾ in	L. L.
December	14	707 Light street	¾ in	L. L.
December	22	421 West Conway street	¾ in	L. L.

NEW VALVES PLACED.

NEW SITES.

Size.	Number.
1 in valve	1
2 in valve	8
3 in valve	5
4 in valve	3
6 in valve	1

NEW VALVES PLACED.

OLD SITES.

1 in valve	4
2 in valve	14
3 in valve	14
4 in valve	16
6 in valve	1

BROKEN MAINS REPAIRED.

1½ in	5
2 in	8
3 in	23
4 in	16
4½ in	4
6 in	12
10 in	4
20 in	1
36 in	1

NEW BLOW.

East Lynn avenue and alley north of Linden avenue	2 in

SPECIAL IRON CROSSING.

Loney's lane and Belt Railroad bridge.

JOINT LEAKS CAULKED.

1½ in joint	258
2 in joint	73
3 in joint	162
4 in joint	349
4½ in joint	13
6 in joint	366
8 in joint	14
10 in joint	164

12	in joint	68
16	in joint	28
18	in joint	1
20	in joint	65
30	in joint	43
36	in joint	45
40	in joint	8
48	in joint	7

CRIPPLED STOPS LOCATED.

1 in	3
2 in	4
3 in	5
4 in	13
6 in	6
8 in	1
10 in	2
12 in	1
20 in	1

FIRE PLUGS USED BY UNITED RAILWAYS AND ELECTRIC COMPANY FOR SPRINKLING THE STREETS

April	97
May	2,814
June	1,106
July	2 308
August	850
September	1,537
October	566
November	37

NEW VALVES PLACED.

2 in valves	115
3 in valves	126
4 in valves	135
6 in valves	197
8 in valves	16
10 in valves	12
12 in valves	5
16 in valves	5
20 in valves	3
30 in valves	2

6x3 in A. P. Smith Clamp and Valve	1
6x4 in " " "	3
10x3 in " " "	3
10x4 in " " "	4
10x6 in " " "	8
12x3 in " " "	1
12x4 in " " "	2
12x6 in " " "	3
16x4 in " " "	1
20x4 in " " "	4
20x6 in " " "	11
20x8 in " " "	3
20x10 in " " "	1
30x8 in " " "	1
40x2 in " " "	2

PIPE FITTINGS USED DURING 1903.

Size.	Number.
2 in caps	4
3 in caps	28
4 in caps	68
6 in caps	54
8 in caps	2
10 in caps	2
16 in caps	1
20 in caps	2
3 in reducers	48
4 in reducers	97
6 in reducers	123
8 in reducers	7
10 in reducers	10
12 in reducers	4
30 in reducers	1
2 in ¼ bends	29
3 in ¼ bends	11
4 in ¼ bends	8
6 in ¼ bends	13
8 in ¼ bends	4
10 in ¼ bends	2
20 in ¼ bends	1
3 in ⅛ bends	18
4 in ⅛ bends	97
6 in ⅛ bends	136
8 in ⅛ bends	4

Size.	Number.
12 in ⅛ bends	7
16 in ⅛ bends	2
20 in ⅛ bends	2
3 in 1/16 bends	1
4 in 1/16 bends	5
6 in 1/16 bends	8
12 in 1/16 bends	1
16 in 1/16 bends	3
20 in 1/16 bends	1
2 in 3 way branches	2
3 in 3 way branches	3
4 in 3 way branches	22
6 in 3 way branches	122
8 in 3 way branches	7
10 in 3 way branches	34
12 in 3 way branches	4
16 in 3 way branches	3
20 in 3 way branches	4
30 in 3 way branches	1
4 in 4 way branches	6
6 in 4 way branches	36
8 in 4 way branches	1
10 in 4 way branches	15
16 in 4 way branches	2
20 in 4 way branches	1
2 in sleeves	20
3 in sleeves	113
4 in sleeves	183
6 in sleeves	163
8 in sleeves	10
10 in sleeves	40
12 in sleeves	7
20 in sleeves	11
30 in sleeves	13
2 in extension iron boxes	23
3 in " " "	67
4 in " " "	59
6 in " " "	101
8 in " " "	14
10 in " " "	5
Iron Service Stop Boxes Used.	
24 to 36 in	100
36 to 48 in	2853

DEPARTMENT METERS PLACED.

Style.		Size of Meters.	No.
Hersey	Meters	⅝ in.	25
Disc	"	⅝ in.	33
Union	"	¾ in.	191
Hersey	"	¾ in.	21
Disc	"	¾ in.	14
Empire	"	1 in.	1
Union	"	1 in.	36
Hersey	"	1 in.	1
Disc	"	1 in.	1
Union	"	1½ in.	5
Union	"	2 in.	4
Gem	"	3 in.	9
Torrent	"	3 in.	13
Worthington	"	3 in.	2
Union	"	3 in.	2
Torrent	"	4 in.	13
Gem	"	4 in.	4
Union	"	4 in.	1
Torrent	"	6 in.	2
Gem	"	6 in.	1
			379

NEW METERS PLACED.

Style.		Size of Meters.	No.
Hersey	Meters (Bill)	⅝ in.	1
Disc	" "	⅝ in.	7
Union	" "	¾ in.	15
Hersey	" "	¾ in.	2
Disc	" "	1 in	1
Union	" "	1 in.	18
Crown	" "	1½ in.	1
Union	" "	1½ in.	16
Union	" "	2 in.	24
Union	" "	3 in.	10
Gem	" "	3 in.	6
Torrent	" "	3 in.	2
Torrent	" "	4 in.	3
Gem	" "	4 in.	2
Union	" "	4 in.	9
Union	" "	6 in.	1
Gem	" "	6 in.	1
Torrent	" "	6 in.	2
			121

EEL GUARD AND CORPORATION AND CURB STOPS USED IN 1903.

⅝ in eel guard corporation stops	2,138
¾ in eel guard corporation stops	910
1 in eel guard corporation stops	139
1½ in eel guard corporation stops	47
2 in eel guard corporation stops	138

CURB STOPS USED IN 1903.

⅝ in curb stops	1,564
¾ in curb stops	465
1 in curb stops	113
1½ in curb stops	33
2 in curb stops	25

METER VAULTS BUILT IN 1903.

⅝ in meter vaults	56
¾ in meter vaults	377
1 in meter vaults	66
1½ in meter vaults	15
2 in meter vaults	23
3 in meter vaults	23
4 in meter vaults	11
6 in meter vaults	3

DOUBLE-SCREW STOPS USED.

½ in	167
¾ in	68
1 in	36
Iron street rims placed	293
Total number of fire hydrants in use December 31, 1903	2,311
Total number of fountains in use December 31, 1903	214
Total number of blow stops	335
Total number of meters	2,282
Total number of indicators	250
Total number of sewer-inlet blows	202
Service pipes repaired	713
Private pipes leaks, turned off	817
New street rims placed on old sites	79
Clogged service relieved	170
No leak calls	540
Fire hydrants capped and repaired	1,131

Valves packed and repaired	401
Fire hydrants flushed	59,801
Blow stops flushed	8,104
Fire hydrants pumped out	15,613
Plumbing inspections	214
Ferrules drawn for leaks	164
Abandoned ferrules drawn	158
Meters repaired	517
Meter dials placed	8
Meter service repaired, bill	506
Meters sent to Mechanical Department for repairs	204
Meter inspections	153
Clogged meters relieved	75
Auxiliary meters placed	128
Original meters placed	203
Meters packed	1,697
Fountains repaired	250
Fountains turned off	254
Fountains turned on	236
Fountains cleaned and regulated	4,941
Fountains sent to Mechanical Division for repairs	8
Fountains clogged and relieved	103
Fountain inspection	149
Meter boxes placed	33
Meter covers repaired	47
Service boxes lowered	2,621
Clogged mains relieved	1
Clogged fire hydrants relieved	6
Service boxes raised	12
Clogged valves relieved	8
Service frozen and thawed out	2
Ferrules drawn order Water Collector	221
Ferrules returned order Water Collector	54
Service turned off order Water Collector	2,133
Service turned on order Water Collector	1,747
Ten days' notice sent out for turn-off	10,803

SERVICE OF WATER CHANGED IN 1903.

Jan. 8...	Rear E. S. Broadway, between Lanvale and Federal streets.	M. to H.
May 15..	N. S. North ave., bet. 10th and 12th sts. 10th, 11th and 12th sts., bet. North and Walbrook avenues.	H. to standpipe service.
June 30.	N S. North ave., bet. Oak st. and York road, and York road, between North avenue and 23d sreet.	M. to H.
Nov. 24.	Preston street, between Greenmount ave. and Bond st., to Federal st., to Hopkins ave., to Lafayette ave., to Wolfe st., to North ave., to eastern city limits. Also 20-inch line on North ave. to Greenmount ave.	M. to H.
Dec. 29..	Pratt st., between Fremont and Parkin streets.	L. to M.

METERS.

Blue print number.	Location.	Size.	No.	Style.
02195.....	Clifton Park, N. of Washington street.....	40 in.	9	Venturi.
02264.....	Druid Lake, Gate House.....	30 in.	2	Venturi.
02300.....	Mount Royal Terrace, opposite Park avenue.....	30 in.	....	Venturi vault.
02326.....	Mount Royal Terrace.....	30 in.	.....	Stop vault.
02427.....	Malster avenue, S. of McMechen street.....	6 in.	3	Check vault.

FORCE OF CONSTRUCTION DIVISION JANUARY 1, 1904.

Superintendent	1
General Foreman	1
Chief Clerk	1
Bookkeeper	1
Record Clerks	2
Office Clerks	2
Emergency Clerk	1
Storekeeper	1
Assistant Storekeeper	1
Foreman of Wagons	1
Foreman of Paving	1
Night Watchmen	2
Meter Foremen	3
Main Foremen	3
Service Foremen	5
Emergency Foreman	1
Repair Foremen	3
Bricklayers	2
Pavers	4
Rammers	4
Caulkers	14
Tappers	6
Turnoff Men	4
Blow Stop Men	2
Inspector of Main and Services	3
Laborers	116
Carts	6
Superintendent's Wagon	1
Department Wagons	10
" Emergency Wagon	1
" Horses	14
" Dayton Wagon	1
" Harness Sets	13
" Storm Blankets	12
" Horse Blankets	12
" Patent Feed Boxes	12
" Horse Sandals	3

CAR FARE USED IN 1903.

January	1,000
February	1,200
March	900
April	1,200
May	1,500
June	1,200
July	1,200
August	1,200
September	1,100
October	800
November	1,000
December	900
Total	13,200

CAST-IRON PIPE USED DURING YEAR 1903.

Size.	Feet	Inches.
2 in. A	423	6
3 in. A	2,373	8
4 in. A	4,108	3
6 in. A	17,404	3
6 in. B	15,343	7
8 in. A	582	...
10 in. A	511	...
10 in. B	1,227	...
12 in. B	962	...
16 in. B	6,105	...
20 in. B	1,660	...
30 in. A	553	...
30 in. B	343	...
36 in. B	12	...
Total feet	51,608	3

LEAD-LINED AND 1½ C. I. PIPE USED DURING YEAR 1903.

Size	Feet.	Inches.
¾ in. L. L. pipe	38,229	11
1 in. L. L. pipe	1,923	1
1½ in. L. L. pipe	680	4
2 in. L. L. pipe	474	3
1½ in. C. I. pipe	193	10
Total feet	41,501	5

LENGTH AND COST OF NEW MAINS LAID IN 1903.

Class.	Diameter Inches.	Length in Feet.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Laying Pipe.	Cost of Paving.	Total Cost.	Average Cost Per Foot.
A	6	16,592	$ 8,510 85	$2,038 59	$ 298 98	$10,848 42	$ 923 41	$11,771 83	$ 70 9/10
B	6	13,179	8,046 55	1,572 29	289 48	9,908 32	366 14	10,274 46	77 9/10
A	8	366	126 95	87 03	14 06	228 04	59 94	287 98	78 7/10
A	10	459	483 25	111 02	25 45	619 72	11 89	631 61	1 37 6/10
B	10	1,202	1,312 32	166 01	37 05	1,515 38	63 81	1 579 19	1 31 4/10
B	20	1,636	4,537 77	732 49	151 77	5,422 03	178 73	5,600 76	3 42 8/10
A	30	553	4,169 71	1,027 11	131 04	5,327 86	173 26	5,501 12	9 94 7/10
B	30	343	1,689 85	964 10	134 17	2,788 12	73 35	2 861 47	8 34 2/10
Total	.....	34,330	$28,877 25	$6,698 64	$1,082 00	$36,657 89	$1,850 53	$38,508 42	.....

MAIN CONNECTIONS IN 1903.

CLASS.	Diam. Inches	Length in Feet.	Cost of Material	Cost of Labor.	Cost of Hauling.	Cost of Connections	Cost of Paving.	Total Cost.
.....	2	$ 46.6	$ 21 73	$ 16 38	$ 1 13	$ 39 24	....	$ $39 24
.....	3	1,216.3	1,133 03	508 77	42 35	1,684 15	$ 220 74	1,904 89
.....	4	1,918.7	1.338 80	435 29	40 02	1,814 11	197 85	2,011 96
.....	6	1,203.5	3,783 37	1,709 03	151 47	5,643 87	732 24	6,376 11
.....	8	15	106 69	100 60	90	208 19	.....	208 19
.....	10	....	203 11	22 91	3 30	229 32	22 79	252 11
.....	12	4	146 16	119 93	2 10	268 19	....	268 19
.....	20	24.6	1,839 04	587 82	52 47	2,479 33	147 62	2,626 95
.....	30	....	462 80	323 51	33 04	819 35	27 51	846 86
Total.....	.....	$4,428.3	$9,034 73	$3,824 24	$326 78	$13,185 75	$1,348 75	$14,534 50

LENGTH AND COST OF NEW MAINS LAID IN 1903 (NEW LOAN) NOT COMPLETED.

Class	Diam. Inches.	Length in Feet.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Laying Pipe.	Cost of Paving.	Total Cost.
B	16	6,105	$29,144.21	$4,792.09	$1,021.31	$34,957.61	$29.18	$34,986 79
	12	958						
	6	319						
	3	9						
	4	3						
Total		7,394	$29,144.21	$4.792.09	$1,021.31	$34,957 61	$29.18	$34,986.79

SINKING TEST WELLS FOR RESERVOIR SITE IN 1903. NEW LOAN.

	Total cost.
Edmondson avenue and Western city limits Calloway site Williams site Keyworth site	$786 61
Total	$786 61

METERED SUPPLIES INSERTED IN 1903.

Month.	Meters. Number of Each Size.									Cost of Meters.	Cost of Material.	Cost of Labor.	Cost of Hauling	Cost of Paving.	Total Cost.
	⅝ in.	¾ in.	1 in.	1 ½in	2 in.	3 in.	4 in.	6 in.	Total.						
January....	.....	31	3	1	.....	3	.....	.....	38	$ 762 70	$334 54	$213 66	$43 68	$456 32	$1,810 90
February..	3	17	8	.....	1	4	1	.....	34	930 55	324 18	223 77	42 82	428 02	1,949 34
March.. ...	5	32	3	.....	.....	2	.....	.....	42	712 38	398 08	186 50	38 23	625 71	1 960 90
April.....	10	28	6	.....	.....	4	3	1	52	1,712 52	410 68	283 64	52 08	540 39	2,999 31
May..	1	7	.....	.....	1	4	.....	1	14	293 36	155 79	86 89	18 75	315 09	869 88
June.....	1	17	5	.....	.....	.....	.....	....	23	314 65	155 24	87 48	15 98	197 86	771 21
July.....	4	43	.....	1	1	.....	.....	.....	49	703 95	363 18	184 84	38 51	548 36	1,838 84
August. ...	3	17	4	2	.....	2	3	.....	31	972 75	258 01	189 77	31 93	366 37	1,818 83
Septem'r .	2	10	.....	.....	.....	.....	.....	.....	12	152 80	84 15	61 75	14 47	112 56	425 73
October....	24	24	8	.....	.....	5	8	1	70	2,576 45	440 79	380 35	64 96	526 61	3,989 16
November	5	.....	2	.....	1	2	3	.....	13	458 90	85 84	80 87	11 48	113 12	750 21
December	.....	.....	.....	1	.....	.....	.....	.....	1	37 00	6 13	4 00	90	16 11	64 14
Total.....	58	226	39	5	4	26	18	3	379	$9,628 01	$3,016 61	$1,983 52	$373 79	$4,246 52	$19,248 45

METERED SUPPLIES INSERTED IN 1903. BILLED.

Month.	Meters. Number of Each Size.									Cost of Meters.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Paving.	Total Cost.	Amount Received for Supplies	Profit.
	⅝ in.	¾ in.	1 in.	1½ in.	2 in.	3 in.	4 in.	6 in.	Total.								
January	.....	1	1	.....	5	2	.....	1	10	$819 24	$ 253 95	$172 37	$24 46	$146 46	$1,416 48	$656 96	$ 59 72
February	.....	.....	1	1	1	.....	.....	.....	3	110 10	15 68	22 50	3 93	22 07	174 28	70 60	6 42
March	.....	4	2	4	2	2	1	.....	15	676 20	309 82	140 99	20 88	131 85	1,279 74	775 98	54 77
April	1	1	.....	2	1	2	3	.....	10	784 75	208 19	150 01	21 55	68 80	1,233 30	577 42	40 99
May	.....	.....	1	.....	2	3	1	.....	7	517 10	267 48	141 73	20 77	29 70	976 78	620 03	45 97
June	.....	1	2	.....	1	1	1	.....	6	336 45	116 20	55 47	10 02	39 79	557 93	210 96	19 19
July	.....	3	4	3	3	.....	1	.....	14	535 65	318 21	183 91	26 70	79 28	1,143 75	618 45	52 75
August	.....	2	3	2	3	.....	3	.....	13	769 80	219 95	108 11	16 54	71 77	1 186 17	378 46	34 51
September	1	1	2	3	1	1	2	.....	11	639 18	306 32	117 88	23 33	104 86	1,191 57	485 91	46 25
October	1	1	1	2	1	3	1	2	12	1,250 61	642 10	258 43	25 35	67 06	2,143 55	860 66	82 37
November	3	1	.....	.....	3	4	1	1	13	1,003 10	331 38	110 49	18 17	89 91	1,554 05	454 27	44 59
December	2	2	2	.....	1	.....	.....	.....	7	136 30	67 98	38 41	8 56	10 80	262 05	125 75	12 58
Total	8	17	19	17	24	18	14	4	121	$7,578 48	$3,057 26	$1,400 30	$221 26	$862 35	$13,119 65	$5,835 45	$500 11

NEW SERVICE CONNECTIONS, 1903.

Month.	Number Services.	Number of Feet Pipe.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Paving.	Total Cost.	Amount Received for Connections.	Profit.	Loss.
January.....	58	926.6 in.	$ 248 17	$135 03	$28 86	$158 71	$ 570 77	$ 560 00	....	$10 77
February.....	46	637.11 in.	217 53	102 71	22 71	67 83	410 78	448 00	$ 37 22	.....
March.....	139	2,190.2 in.	688 23	278 11	44 27	189 42	1,200 03	1,444 00	243 97	.....
April.....	184	2,380.5 in.	800 97	310 06	43 42	142 82	1,297 27	1,776 00	478 73	.....
May.....	168	2,571.7 in.	775 74	322 98	55 31	253 03	1,407 06	1,514 00	106 94	.....
June	309	4,771.7 in.	1,435 47	622 46	87 78	391 78	2,537 49	2,896 00	358 51	.....
July	136	2,316.1 in.	637 87	301 67	58 55	204 46	1,202 55	1 238 00	35 45	....
August.....	209	3,231.2 in.	917 93	375 41	52 08	272 70	1,618 12	1,978 00	359 88	.....
September..	179	3,059.11 in.	841 47	380 57	68 71	235 36	1,526 11	1,652 00	125 89	.....
October.....	192	2,973	831 61	392 64	69 28	275 00	1,568 53	1,716 00	147 47	.....
November...	149	2,073.6 in.	641 71	330 64	63 69	187 62	1,223 66	1 416 00	192 34	.....
December...	86	1,245	389 90	213 73	50 32	111 02	764 97	674 00	....	90 97
Total.....	1,855	28,376.10 in	$8,426 60	$3,766 01	$644 98	$2,489 75	$15 327 34	$17 312 00	$2 086 40	$101 74

SERVICE CONNECTIONS IN 1903. BILLED SUPPLIES.

Month.	Number of Connections.	Number of Feet Pipe.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Paving.	Total Cost.	Amount Received.	Profit.
January	6	103.6 inches	$ 85 36	$ 72 58	$12 82	$17 75	$188 51	$207 36	$18 85
February	6	65 "	56 55	72 40	9 77	21 35	160 07	176 08	16 01
March	8	165 7 "	163 45	63 14	8 51	11 37	246 47	271 12	24 65
April	9	138.3 "	116 49	37 76	7 86	23 06	185 17	203 69	18 52
May	6	47.11 "	48 57	16 00	3 36	14 59	82 52	90 77	8 25
June	15	237.7 "	319 68	132 93	19 04	41 38	513 03	564 33	51 30
July	13	94.8 "	85 64	30 31	10 11	16 63	142 69	156 96	14 27
August	36	509	562 00	168 19	25 69	75 53	831 41	914 55	83 14
September	13	157	102 14	36 31	8 89	13 59	160 93	177 02	16 09
October	8	41.3 "	71 11	27 35	5 17	6 57	110 20	121 22	11 02
November	13	141.2 "	155 04	52 77	12 03	22 72	242 56	266 82	24 26
December	9	80	106 31	34 41	6 74	5 27	152 73	168 00	15 27
Total	142	1,780.11 inches.	$1,872 34	$744 15	$129 99	$269 81	$3,016 29	$3,317 92	$301 63

HYDRANTS, FOUNTAINS AND VALVES INSERTED IN 1903.

Month.	Hydrants.						Fountains.		Valves.										Total Cost.
	Number and Size.				Total No.	Cost.	Number.	Cost.	Number and Size.								Total No.	Cost.	
	4 in.	5 in.	6 in.	8 in.					1 in.	2 in.	3 in.	4 in.	6 in.	8 in.	10 in.	12 in.	20 in.			
January	.....	4	.....	.....	4	$ 242 52	.....	.....	1	4	.....	3	1	.....	.....	.....	.....	9	$102 05	$ 344 57
February	.....	4	.....	.....	4	240 11	1	$ 52 18	1	1	3	1	2	.....	....	.....	.....	8	83 63	375 92
March	.....	6	.....	.....	6	343 43	4	129 68	.....	2	....	.....	2	.....	.....	.....	....	4	27 63	500 74
April	....	4	.....	.....	4	123 52	1	42 99	.....	1	4	1	.....	.....	.....	.....	.....	6	128 75	295 26
May	.....	3	.....	.....	3	163 17	.....	.....	.....	2	.....	2	1	.....	.....	.....	.....	5	52 62	215 79
June	.....	2	.....	.....	2	100 90	1	59 20	1	.....	4	4	.....	.....	.....	.....	.....	9	150 27	310 37
July	.....	2	.....	.....	2	133 33	1	46 49	1	1	.....	2	1	.....	.....	.....	.....	5	81 25	261 07
August	2	2	.....	10	14	1,768 68	2	86 86	1	6	2	2	1	8	2	.....	.....	22	148 44	2,003 98
September	.....	.....	.....	1	1	125 75	1	33 15	.....	1	.....	3	.....	1	.....	.....	...	5	57 65	216 55
October	.....	1	.....	1	2	267 13	1	44 28	.....	2	2	2	.....	1	.....	.....	.....	7	102 12	413 53
November	3	5	.....	.....	8	367 10	.....	.....	.....	2	3	4	2	.....	.....	.....	.....	11	170 13	537 23
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	23 35	23 35
Total	5	33	.....	12	50	$3,875 54	12	$494 83	5	22	19	24	10	10	2	.....	.....	92	$1,127 89	$5 498 36

COST OF REPAIRS TO MAINS IN 1903.

MONTH.	Number Joint Leaks.	Number Breaks.	Feet Mains Abandoned.	Mains Lowered and Locations Changed.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Repairs.	Cost of Paving.	Total Cost.
January	75	4	5,200	2	$ 211 42	$ 861 19	$ 60 82	$ 1,133 43	$ 933 46	$2,066 89
February	63	3	1,290	1	525 88	894 12	69 43	1 489 43	736 04	2,225 47
March	138	2	6 890	2	966 65	1,439 97	96 30	2,502 92	1,260 45	3,763 37
April	123	3	7,900	2	489 20	1,510 06	93 24	2,092 50	818 18	2,910 68
May	95	7	7.515	3	1,053 28	2,622 42	172 82	3,848 52	1,156 50	5,005 02
June	102	12	5,900	4	1,103 30	1,524 06	114 70	2,742 06	1,028 71	3,771 77
July	100	5	5,130	8	935 12	1,497 43	88 65	2,521 20	1,056 63	3,577 83
August	97	6	7,975	2	689 33	1,471 77	100 80	2,261 90	988 19	3,250 09
September	107	6	6,875	4	1,253 10	2,373 78	150 89	3,777 77	1 189 40	4,967 17
October	128	8	1,350	5	406 99	982 76	81 33	1,471 08	1,119 23	2,590 31
November	158	14	1,450	1	271 44	983 67	67 23	1,322 34	752 21	2,074 55
December	123	9	150	5	.....	720 28	51 44	771 72	455 44	1,227 16
Total	1,309	79	57,625	39	$7,905 71	$16 881 15	$1,147 65	$25,934 87	$11,495 44	$37,430 31

REPAIRS TO METERS AND SERVICE CONNECTIONS IN 1903.

Months.	Meters. Number of Each Size.									Cost of Repair Meters.	Cost of Material.	Cost of Labor.	Cost of Hauling.	Cost of Paving.	Total Cost.
	⅝ in.	¾ in.	1 in.	1½ in.	2 in.	3 in.	4 in.	6 in.	Total.						
January	2	43	14	13	14	24	2	2	114	$722 77	$237 12	$1,383 71	$145 01	$465 89	$2,231 83
February	2	10	10	4	13	13	1	1	54	398 41	52 62	867 56	66 58	271 26	1,258 02
March	5	21	18	19	20	25	5	3	116	485 95	197 03	973 82	66 74	535 20	1,772 79
April	3	7	11	7	7	16	6	.....	57	553 12	134 21	817 62	48 29	585 96	1,486 08
May	1	11	2	1	6	23	2	.....	46	438 42	196 86	1,069 85	71 98	931 00	2,269 69
June	1	22	16	10	11	22	3	1	86	440 45	196 68	871 48	64 50	846 49	1,979 15
July	2	9	3	11	6	10	.....	1	42	496 73	290 86	1,000 58	78 26	844 47	2,214 17
August	.....	12	13	11	9	10	4	.....	59	413 77	148 36	1,056 74	76 62	635 60	1,917 32
September	1	37	19	17	15	32	10	.....	131	562 22	133 84	1,064 04	81 85	897 06	2,176 79
October	6	33	24	14	28	21	9	2	137	777 70	179 85	1,323 51	113 56	927 57	2,544 49
November	1	11	6	8	13	16	.....	2	57	749 33	166 48	1,384 45	115 90	475 24	2,142 07
December	1	32	37	16	33	31	6	.....	156	652 77	175 32	1,217 36	109 67	219 14	1,721 49
Total	25	248	173	131	175	243	48	12	1,055	$6,691 64	$2,109 23	$13,030 82	$1,038 96	$7,534 88	$23,713 89

REPAIRS TO HYDRANTS, FOUNTAINS AND VALVES IN 1903.

Month.	Hydrants.						Fountains Cleaned and Repaired.		Valves.	Total Cost of Repairs.
	Number.				Total No.	Cost of Repairs.	Number.	Cost of Repairs.	Cost of Repairs.	
	4 in.	5 in.	6 in.	8 in.						
January	17	23	.....	.....	40	$260 10	152	$ 78 07	$344 34	$ 682 51
February	16	25	1	.....	42	294 10	.....	16 76	208 27	519 13
March	8	33	.....	.....	41	307 55	361	261 85	243 24	812 64
April	12	26	.....	.....	38	280 25	575	190 90	229 68	700 83
May	6	25	.....	.....	31	250 93	547	194 85	220 50	666 28
June	8	22	.....	.....	30	214 84	614	188 67	393 69	797 20
July	20	34	1	.....	55	353 76	684	189 42	218 09	761 27
August	20	38	1	.....	59	393 58	513	225 07	281 93	900 58
September	17	45	1	1	64	415 16	643	236 01	235 05	886 22
October	21	47	.....	.....	68	541 24	670	149 37	349 71	1,040 32
November	14	37	1	.....	52	337 10	600	151 48	418 74	907 32
December	14	31	.....	.....	45	240 58	75	268 55	181 31	690 44
Totals	173	386	5	1	565	$3,889 19	5,434	$2,151 00	$3,324 55	$9,364 74

COST OF MISCELLANEOUS WORK DONE IN 1903.

Month.	Material and Labor.				Cost of Paving.	Total Cost of Work.
	Materials	Labor.	Hauling.	Total Cost, Material and Labor.		
	Cost.	Cost.	Cost.			
January	$27 89	$2,814 12	$260 48	$3,102 49	$ 77 32	$3,179 81
February	14 72	2,604 15	226 88	2,845 75	41 94	2,887 69
March	24	1,839 11	244 38	2,083 73	36 27	2,120 00
April	78	1,806 09	196 29	2,003 16	38 45	2,041 61
May	95	2,009 76	191 20	2,201 91	63 13	2,265 04
June	23 94	2,649 83	218 06	2,891 83	239 12	3,130 95
July	19 33	2,418 02	244 64	2,681 99	128 97	2,810 96
August	94	2,382 39	231 65	2,614 98	78 87	2,693 85
September	1 35	2,139 35	163 10	2,303 80	54 44	2,358 24
October	5 41	2,228 12	194 31	2,427 84	59 61	2,487 45
November	34 85	1,849 56	172 80	2,057 21	23 28	2,080 49
December	10 38	2,152 00	171 39	2,333 77	81 58	2,415 35
Total	$140 78	$26,892 50	$2,515 18	$29,548 46	$922 98	$30,471 44

REPORT OF LEDGERS "A" AND "B" FOR YEAR 1903.

Meter and Plumbing Bills.							Turn Off and On.					Ferrules Drawn and Returned.						Amount Received in 1903 for 1901 and 1902 Work
Labor Cost.	Material and Labor Cost.	Amount of Bills.	No. Bills Paid.	No. Bills Unpaid.	Amount Received.	Amount Due.	No. Turn Offs.	No Turn Ons.	Cost of Labor.	Total Cost.	Amount Received.	No. Drawn.	No. Returned.	Cost of Labor.	Cost of Material.	Total Cost.	Amount Received.	
$ 79 44	$ 116 45	$ 124 58	25	.....	$ 124 58	.....	41	21	$ 66 32	$ 66 32	$ 45 00	24	1	$ 71 25	$1 19	$ 72 44	$ 2 00	$ 756
691 32	1,914 76	1,320 14	101	8	1,134 99	$ 172 45	38	20	81 90	81 90	46 00	8	3	52 91	20	53 11	6 00	174
408 37	1,037 18	765 77	52	3	644 98	52 42	20	32	64 62	64 62	24 00	8	4	26 27	.....	26 27	8 00	480
574 61	1,738 06	1,212 63	66	2	1,088 89	89 08	21	31	40 25	40 25	35 00	28	5	51 21	.....	51 21	10 00	343
281 89	988 04	785 54	39	3	739 73	32 35	95	82	129 26	129 26	78 00	25	5	47 05	78	47 83	10 00	269
507 25	1,717 55	1,120 44	55	10	538 80	229 56	1,489	1,067	738 22	738 22	935 00	16	3	47 92	24	48 16	4 00	145
179 98	371 31	405 24	41	5	323 92	52 03	191	259	257 65	257 65	264 00	12	5	44 57	1 96	46 53	10 00	285
396 45	1,712 51	1,095 68	53	2	1,010 99	51 50	31	63	143 79	143 79	54 00	30	3	70 16	66	70 82	6 00	255
763 74	2,038 49	1,735 92	73	12	1,409 06	317 78	11	54	98 44	98 44	44 00	12	5	36 84	1 27	38 11	6 00	.....
731 46	2,137 55	1,729 13	78	25	1,231 33	462 11	7	34	63 33	63 33	27 00	16	7	46 30	1 46	47 76	14 00	46
751 88	3,551 78	1,877 01	52	45	847 39	988 43	46	37	89 58	89 58	44 00	11	10	47 33	20	46 53	20 00	589
862 83	3,631 92	1,949 36	4	79	163 62	1,975 74	143	47	179 84	179 84	77 00	31	3	135 26	.....	135 26	.....	25
$6,229 22	$20,955 60	$17,989 74	639	194	$9,258 28	$4,423 45	2,133	1,747	$1,953 20	$1,953 20	$1,673 00	221	54	$677 07	$7 96	$685 03	$96 00	$3,372

engine No. 1209, which
ation was put out of se

Report of the Mechanical Division.

BALTIMORE, December 31, 1903.

MR. A. M. QUICK, *Water Engineer, City Hall.*

DEAR SIR—I beg leave to submit the following report of work performed by the Mechanical Division during the year ending December 31, 1903. This Division has chiefly been engaged with the routine work of making and repairing valves, fire hydrants, water meter, and making improvements and repairs to machinery in the different pumping stations and doing miscellaneous work for the other divisions of the Department.

At the Mt. Royal Pumping Station 5,549,352,817 gallons of water were pumped to the Western High District at a cost of .0057 cents per 1,000 gallons, and 1,018,980,928 gallons were pumped into the Middle Service at a cost of .0028 cents per 1,000 gallons; also 223 carloads of bituminous coal, averaging 21,588,549 pounds, were received and unloaded.

Repairs were made to the steam lines and piping, mains and auxiliary pumps, boilers, ash hoppers, feed pumps, coal conveyor, dynamos, and other machinery.

On May 7 the compensating cylinder on No. 1 side of engine No. 1209 was leaking badly, and was taken out of the bearing, and found it cracked about 12 inches long in the fillet of the collars. A new casing was immediately ordered and put in position on July 1.

The force main bursted on May 19 at 2.05 A.M. on the north side of North avenue, near McMechen street. Fortunately no damage was done to engine No. 1209, which was running at the time. The station was put out of service

for a short time, however, and pumped slowly through a 30-inch convert, which had been recently laid. During the period of repairs to the force main the pumps of the Western Pumping Station assisted in keeping up the Western High Service supply.

A ventilating fan was erected in the crusher room for exhausting the flying coal dust that is caused by the unloading of coal, thereby clearing the atmosphere of dust for the comfort of the men that are required to attend to the slide during the unloading. Also enclosed opening around coal hopper to exclude the dust from going into the crusher room. During the month of April the Queamahoning Coal Company were unable to make prompt deliveries of coal to the stations, and it was necessary to haul 1,137,715 pounds of coal by team from Gay-street yard to keep the stations from running short of coal.

On July 12, during a heavy rain storm, the driveway, gutter and part of the lawn on the north side of the station was washed away by the water that rushed over the driveway from McMechen street, depositing the brick and sand against the fence; also filled the crusher room with water which had to be pumped out.

The link motion of engine No. 1208 was overhauled and 25 new gun metal bushings were used. Repairs were also made to the stoker engines, furnaces and brickwork of the boilers.

At the Eastern Pumping Station 3,424,234,271 gallons of water were pumped to the Eastern High Service District at a cost of .0062 cents per 1,000 gallons, and 114,228,805 gallons were pumped to the Middle Service at a cost of .0040 cents per 1,000 gallons; also pumped in the Eastern and Western High Service 17,183,743 gallons at a cost of .0045 cents per 1,000 gallons.

3,111 cart loads of coal, weighing 8,679,173 pounds, were hauled from the bins to the boiler room; 79 car loads of coal, weighing 7,442,500 pounds, were received and unloaded.

Men from the Union Railroad Company made necessary repairs to the coal trestle and bunkers in Gay-street yard.

Minor repairs were made to engines No. 839 and No. 1207, dynamos, auxiliary pumps and pipes, boiler feed pumps, valves, brickwork and furnaces and other parts of machinery.

At the Western Pumping Station 115,609,457 gallons of water were pumped to the upper service at a cost of .0122 cents per 1,000 gallons, and 35,252,928 gallons were pumped to the Western High Service at a cost of .0058 cents per 1,000 gallons.

There were unloaded at the railroad siding at this station 53 car loads of bituminous coal, weighing 4,269,200 pounds.

The Druid Hill Park electric plant consumed 1,804,175 pounds of coal. Minor repairs were made to the main pump, auxiliary and boiler feed pumps, piping, blow-off valves, stokers and other machinery.

The coal scale in the boiler room was overhauled and tested on May 30.

Some slight repairs were also made and painting done at the engineer's residence at this station.

The shops have been running on full time, with full force, until November 13, when it was necessary to lay off 20 men on account of no funds and to avoid a deficit at the end of the year.

The machine shops turned out complete 450 gate valves from 2-inch drain to 12-inch drain; 49 single steamer-fire hydrants and 30 double steamer-fire hydrants; 10 street fountains; 617 meter boxes and 37 various sizes tapping clamps.

Extensive repairs were made to 211 gate valves from 2 inches to 16 inches in diameter, 27 fire hydrants, 26 street fountains, 4 meter boxes, and to water meters of different sizes: Worthington 288, Crown 4, Union 71, Hersey rotary 58, Hersey torrents 37, Hersey disc Niagara 1, Empire 6, Gem 3 and Thompson meter 1.

Furnished 10 parts for repairs to street fountains at various locations and 13 parts for repairs to fire hydrants.

Minor repairs were made to the shop's engine, shafting, lathes, piping and other tools.

Changed location of the boring mill, shaper, bolt cutter, on account of erecting one new 16-inch lathe, one new 18-inch lathe, one new 30-inch lathe, one new 10-foot planer, two tool grinders on the floor in the machine shop.

Rearranged electric light wiring in the smith shop.

Altered steam piping in shop engine room for heating the new storehouse; also run gas pipe for lighting the basement.

At the smith shop there were dressed 1,134 lathe tools, 308 chisels, 35 pipe-cutters, 5 awls; repaired 10 wrenches, 18 tools for smith shop, 13 express wagons; 810 horseshoes were applied on Department horses; heeled and toed 550 horseshoes.

Forged 45 chisels, 53 pipe cutters, 10 wrenches, 35 lathe tools and miscellaneous lot of small work.

In the pattern shop there were patterns made for 12x8-inch, 20x8-inch, 16x8-inch, 30x8-inch, 12x10-inch, 20x10-inch, 30x10-inch, 20x4-inch, 20x12-inch and 30x12-inch tapping clamps, 2 lugs for bands, follower plate, liner plate, 24-inch manhole frame and cover, bushing for dredge Julia, vertical web bar, dead plate, jet plug, rocker bar, hook bearing, wrench for old style fire hydrant, tee bar, crosshead gib, head for accumulators, 4 plates for meter vaults, core boxes for valves and tapping clamp. A great deal of repair work was done on old patterns of pipe fittings from 2 inches to 12 inches, gate valves, grate bars, fire hydrant clamps, etc.

The carpenters have erected timbers for the countershafting for the new tools erected in the machine shop, seamed floor of machine shop under planer. Repaired coal and coke bins, woodwork around water main on Eager-street bridge, 7 boxes for meters, 8 wheelbarrows, floor in engine-room; made 510 stop boxes, 1 tool-box, 11-foot ladder, 4 meter stands, 4 rope slugs, 1 cant hook, sharpened 8 saws; boxed water motor in smith shop, renewed anvil blocks, erected two window frames

in west side; repaired 2 doors of stable, concreted stalls and passageway and renewed floor of stalls, put in perforated drain pipes, boxed material for shipment, etc.

The painters have painted the exterior of the smith shop, removed plaster and applied three coats of brown paint on pipe under Biddle-street bridge, boiler feed pump; renewed broken window lights in the pumping stations, machine shop, smith shop and stable.

The bricklayers have repaired the brickwork in the furnaces and boilers at the three pumping stations. They have paved the passageway in the stable with vitrified bricks.

This division has also inspected and superintended the work done by the hauling contractors in unloading all cast-iron pipe and large castings by rail and the delivery of them at the yard, or where required for work in the streets; received 2,596 lengths of cast-iron pipe, from 3 inches to 30 inches in diameter, weighing 2,949,959 pounds; 67 special castings, weighing 46,501 pounds; 1,178 pigs of lead, weighing 112,000 pounds. The yard force have laid and rammed 60 feet of 3x4-inch waste water drain from the areaway from the new storehouse. They also melted 1,591½ pounds of scrap lead into pigs. They hauled 1,137,715 pounds of coal from Gay street yard to Mount Royal Pumping Station, cut cracked ends off of pipe, weighed, marked and stored all castings received in the yard.

For the Engineer's Division.—Made 670 1x2-inch stakes, 12 inch iron clamps for earth augers, made 2 pipe nippers, 24 pieces of 1 inch pipe 24 inches long, 1 extension piece for earth auger, 1 sounding rod, and painted same. Repaired 7 tee squares, 1 desk and 1 screw driver. Furnished 12.35 feet spars for testing the earth on sites for new reservoirs.

For the Construction Division.—The smith shop dressed 3,432 picks, 1,794 diamond point cutters, 609 chisels, 639 pipe cutters, 97 hand and digging bars, 366 crowbars, 10 chisel bars, 59 bits and stone points, 21 wedges for spliting rods,

10 lead cutters, 62 drills and 32 lamp stands. Repaired 80 hydrant keys, 39 gallows keys, 21 socket keys, 19 lead ladles, 80 caulking tools, 18 roping tools, 7 wrenches, 9 chairs, 3 A. P. Smith tapping machines, 10 Muller tapping machines, 3 ditch pumps, 1 derrick, 17 tool and coke boxes, 1 watch box, 3 lead furnaces, 43 rammers. Ground 701 drills, 2,342 tools, 3 tapping cutters; sharpened 36 saws; cut 486 various size gaskets; drilled 38 various size strainers and 44 flanges; branded 207 shovels. Made 49 ferrule clamps, 600 5/8-inch, 1,300 3/4-inch, 24 3-inch, 96 4-inch cedar plugs, 12 tool boxes, 2 trestles, 22 cart signs and painted same. Finished 56 1/2-inch and 38 3/4-inch double screw stop-cocks and 13 goose necks. Combed 47 2-inch corporation stop-cocks. Forged 6 wrenches, 36 open locks, 5 socket keys, 12 hydrant keys, 12 digging and 12 crowbars, 96 caulking tools, 36 roping tools and 28 chisels. Bands and braces for securing 8x12 1/8-bends on Cedar-avenue bridge. Cut out timbers and covered 12-inch pipe with felt, sawdust and sheetiron on Cedar avenue bridge. Painted woodwork around 30-inch main on Eager-street bridge.

For the Country Division, Lake Clifton.—Painted two signs and railing and screen at gatehouse. Fitted up and applied 8 castiron gargoyles on gatehouse. Forged one eye bolt, 4 3/8-inch hangers, and repaired lawn mower.

Mt. Royal Reservoir.—Repaired spigot for No. 1 gate and stuffing box and drain gate. Made and applied 4 hinges on drain vault.

Lake Montebello.—Repaired roof and sashes of keeper's house, painted exterior of house and outbuilding, one-horse wagon, pole for wagon, doors for stable, floor in office and foreman's house. Made 24 open links, one single and one double wagon tree, one oak handle for mowing machine, six window screens and two bridge hooks.

Loch Raven—Made 24 and 30-inch clamps for suction hose, 60 stakes, 24 7/8x10-inch tee-head bolts, 2 brass screws for gatehouse.

Erected and painted water recording instrument.

Repaved drain gates. For dredge Julia—Altered two bearings, made 60 3/4-inch bolts, laid off work for carpenters for applying truss rods under boilers.

Guilford Reservoir—Repaired kitchen floor of keeper's house.

Druid Lake—Cut 2 30-inch pipe for venturi meter tubes, 31 pieces of railroad rail for roof of vaults, made two platforms, erected cabinet and boxes, pipes for four venturi meters and painted same, 5 screws and placed them in screen well, 4 grating hooks and grappling irons, 11 wrought-iron braces for screen box on pump pipe.

Repaired 1 spigot on No. 8 gate, 1 lock, repaired and painted flagpole on tower, pointed up joints, painted exterior and parts of interior of gatehouse.

Painted grating and railing around screen well.

For meter vaults on Mt. Royal avenue, opposite Park avenue, erected door frames and two doors, railing over vault, and painted two meters and interior of vault, doors, frames and railing.

Lake Roland—Made two brackets, shelf, and erected and painted water-recording instrument.

Drilled and chipped one piece of castiron grating for gatehouse.

West Arlington Standpipe—Pointed up joints of brick work of base of fountain, painted porch of keeper's house and ground 2 pair shears.

Respectfully submitted,

EDWARD G. ROST,
Superintendent of Mechanical Division.

MECHANICAL DIVISION—OPERATION OF PUMPS.

ANNUAL REPORT, DECEMBER, 31, 1903.

		Pumps.	Hours Worked.	Gallons of Water Pumped.	Coal Consumed in Pounds.	Duty.	Gallons of Water Pumped Per lb of Coal.	Cost of Pumping.	Cost of Pumping 1,000 Gals. in Cents
Eastern Pumping Sta.	E High	839	831.00	328,509,625	851,140	60,801,813	391.9	$1,979 72	.0062
	Middle	839	248.00	114,228,805	168,500	28,235,200	639.2	323 00	.0040
	E. High	1,207	7,903.45	3,095,724,656	6,786,698	66,188,746	427.1	18,062 98	.0062
	E. & W.	839	18.00	7,145,902	15,010	78,578,560	476.0	27 29	.0038
	High.	1,207	24 00	10,037,841	26,990	61,431,325	371.9	51 86	.0051
Western Pumping Sta..	Upper	46	425.05	55,537,992	209,630	75,347,278	265.2	687 95	.0122
	W.High	46	122.00	17,626,464	46,248	44,403,654	424.7	97 18	.0058
	Upper	90	457.15	60,071,465	227,000	74,882,830	264.9	747 17	.0121
	W.High	90	122.00	17,626,464	46,248	44,403,654	424.7	97 18	.0058
	W.High	1,208	3,200.45	2,309,839,672	6,312,622	54,646,365	352.3	11,532 17	.0057
Mt. Royal Pumping Sta..	Middle	1,208	795.45	43,615,845	671,892	40,298,555	1000.2	1,827 13	.0027
	W.High	1,209	4,636.45	3,239,513,145	9,398,990	53,688,772	346.4	18,723 07	.0057
	Middle	1,209	559.10	375,365,083	399,183	42,716,991	939.8	1,116 99	.0029

REMARKS.

6-in valve at E. P. Station, one-half open to Middle Service	1,587 hours.
6-in valve at E. P. Station, full open to Middle Service	2,251 "
6-in valve at Mt. Royal, full open to Middle Service	2,349 "
6-in valve at Mt Royal Pumping Station, one-half open to Middle Service	115.05 "
3-in Fountain run in Druid Lake	272½ "

EDWARD G. ROST,

Superintendent Mechanical Division.

Report of Superintendent of County Division

For the Year Ending December 31, 1903.

Mr. A. M. Quick, *Water Engineer.*

Sir:—The rainfall on the Jones' Falls Supply was 48.38 inches.

The water in Lade Roland was too muddy to use for 85 days, and has been below the crest of the dam 44 days, the minimum being 1.32 feet on October 3. The maximum flow over the dam was 2.2 feet on January 3. 5,600 feet of riprap has been laid along the Jones' Falls and Roland Run Branches. The grounds have been kept in their usual good condition. A gauge for recording the flow over the dam has been placed in the gatehouse. The dwelling and outbuildings should be painted. Realized from the sale of fodder, hay, wood, sand, etc., $558.15.

The Jones' Falls Conduit continues in good order and has been of no unusual expense.

The minimum water in Hampden Reservoir was 11.9 feet on April 25, and the maximum 10.8 feet on December 28. The dwelling and outbuildings should be painted.

The minimum water in Druid Lake was 23.6 feet on December 28, 29, 30 and 31, this was caused by the water being drawn down to make repairs to the screen around the pump pipe. The maximum water was 1.9 feet on January 3.

The old copper screen in the bottom of the screen well was worn out, and has been replaced with movable wire ones. Venturi meters have been placed on the outlet pipes from the reservoir (in the lower stop house and on Mt. Royal avenue). The railing around the lake should be painted.

The rainfall on the Gunpowder supply was 47.85 inches. The water in Loch Raven was too muddy to use for 66 days, and was below the dam 6 days; the maximum flow over the dam was 4.9 feet on January 3. The dredge was put in commission April 20, and continued until November 21, when work was suspended on account of ice. There is now a clear basin for about 9,000 feet above the dam, with depths varying from 4.5 feet to 16 feet. That portion of the lake which was dredged last season has filled very materially, there being an average depth of only 8.7 feet; in some places the water is so shoal that it was difficult for the dredge to reach the dock. This section should be redredged next season. When the dredge was laid up last winter a truss was put under the boilers, and hog braces were placed fore and aft; these prevented the hull from settling any further, and very little trouble was had during the season, but the machinery and boilers need a general overhauling, and additional braces should be put in the hull; 548,000 cubic yards were removed in 1,667¼ working hours, at a total cost of $24,681.28.

The percentage of mud varied from 11 to 59, and averaged $34\frac{3}{10}$. The extreme length of pipe line pumped through was 9,165½ feet 22 inches and 1,630 feet of 18-inch, being a total of 10,797½ feet. A gauge for recording the flow over the dam has been placed at the gatehouse. In addition to furnishing all the corn and straw used by the horses at Lake Montebello and the Mechanical Division, $1,892.07 was realized from the sale of surplus material and rent. All the buildings at this station should be painted.

The minimum water in Lake Montebello was 23.0 feet on June 23. Two holes were discovered in the northeastern slope; these were filled with clay, and a clay apron 20 feet wide was spread on the slope, fifty cart loads being used. At the same time a small slip in the riprap on the south slope was repaired. The two dwellings and outbuildings have been painted by the Department painters; the grounds have been kept in their usual good condition. In addition to rais-

ing all the hay used by the horses at this place and the Mechanical Division, there was realized from the sale of hay and wood, $54.

The minimum water in Lake Clifton was 23.8 feet on June 23. Venturi meters have been installed on two of 40-inch pipe lines under the bed of Washington street, so that the consumption can now be measured instead of having to be calculated, as heretofore. This property is in good order except the dwellllng, which should be painted.

Mt. Royal Reservoir has not been called upon to furnish any part of the supply during the year.

Guilford Reservoir has been full during the year and has been of no unusual expense. I again recommend that an iron railing be erected around this reservoir as the present wire fence is unsightly and no protection whatever. The dwelling should be painted.

The West Arlington standpipe, lot and buildings are in good order and have been of little expense, except for superintendence.

The inspectors of the water shed report 56 abatements, 12 being on the Jones' Falls and 34 on the Gunpowder. As the Law Department has recently taken an active interest in these cases, I think a marked improvement should be made during the ensuing year.

Respectfully submitted,

WM. BENTHALL,
Superintendent of County Division.

DEPARTMENT OF PUBLIC WORKS—SUB-DEPARTMENT WATER BOARD.

Table of Rainfall in Inches.

1903.	Jones' Falls Supply.			Gunpowder Supply.					
	Lake Roland.	Hampden Reservoir.	Druid Lake.	Loch Raven.	Lake Montebello.	Lake Clifton.	Mt. Royal Reservoir.	W. H. Service Reservoir.	Guilford Reservoir.
January	4.09	4.87	3.80	4.29	3.96	4.17	3.68	4 33	4.02
February	3.71	4.79	4.64	5.23	4.85	5.75	3.99	4.71	4.84
March	3.53	5.10	4.57	4.35	4.41	4.81	5.47	4.83	3.91
April	4.41	3.76	3.11	3.61	3.51	3.79	3.13	3.43	3.06
May	2.10	9 48	3.14	2.63	2.75	3.47	2.57	2 81	2.51
June	6.65	6.92	7.02	4.71	8.16	7.51	6.00	6.97	7.43
July	7.38	7.50	7.15	7.66	7.90	7.04	6.88	7.37	5.48
August	7.58	6.01	5.93	6.25	6.89	5.99	5.39	5.97	6.62
September	1.24	1.07	1.44	2.09	1.99	1.81	1.18	1.25	0.97
October	3.71	4.10	3.99	2.62	3.54	3.46	3.52	4.05	2.94
November	0.94	0 74	0.54	0.90	0.77	0 70	0.76	0.64	0.61
December	2.49	2.39	2.24	2.54	2.39	2.50	2.11	2.31	2.37
Totals	47.83	49.73	47.57	46.88	51.12	51.00	44.68	48.67	44.76

ANNUAL REPORT

OF THE

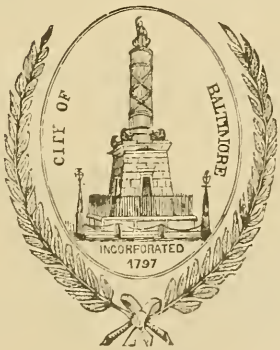
Inspector of Buildings

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE:
WM. J C. DULANY CO.
PUBLIC PRINTERS.

1904.

Department of Buildings.

PERSONNEL.

EDWARD D. PRESTON, . . . Inspector of Buildings.
GEORGE R. BULLEN, . . . Assistant Inspector of Buildings.
ROBT. H. CORNTHWAITE, . . Inspector of District No. 1.
JOHN T. NEWMAN, ... Inspector of District No. 2.
JAS. W. COLLINS, ... Inspector of District No. 3.
JOS. R. DEGENHARDT, . . . Inspector of District No. 4.
JAS. W. MCCUEN, ... Inspector of Furnaces.
ALBERT W. COOPER, ... Clerk.
ELMER ALTREITH, ... Assistant Clerk.
HENRY ALLNUTT, ... Permit Clerk.
WILLIAM CLARKE, ... Electric Inspector.
CLARENCE RANSON, ... Assistant Electric Inspector.
WM. J. MCDONNELL, ... Permit Clerk.
J. CLIFFORD SPEDDEN, ... Draughtsman.

J. S. BUSICK, EDWARD W. GORMAN, WM. M. CURRAN,
GEO. A. HOUCK, WM. H. SCHULZ,
Extra Men.

REPORT.

DEPARTMENT OF PUBLIC SAFETY—IMPROVEMENTS
SUB-DEPARTMENT OFFICE INSPECTOR OF BUILDINGS,
CITY HALL.

BALTIMORE, January 2, 1904.

To the Honorable
the Mayor and City Council of Baltimore City:

GENTLEMEN:

I herewith submit summary and tables of work done under the supervision of this office for the year ending December 31, 1903.

Respectfully submitted,

ED. D. PRESTON,
Inspector of Buildings.

BUILDINGS USED BY SCHOOL BOARD.

There was appropriated for improvements and sanitary work at these buildings the sum of..... .....$59,400 00

Improvements being made as follows:

Western Female High School, new heater.		$ 220	00
Polytechnic Institute, new heater, boiler house and partitions		2,701	50
No. 10	School, partitions	464	02
No. 17	" partitions	394	19
No. 19	" partitions and repairs	806	92
No. 20	" floors and excavations	4,808	84
No. 21	" sewer, &c	487	25
No. 28	" partitions	634	25
No. 30	" partitions	709	66
No. 33	" partitions	482	57
No. 34	" areas	464	70
No. 45	" partitions	619	20
No. 47	" partitions	720	12
No. 48	" partitions	558	57
No. 55	" sewer	4,864	61
No. 115	" new addition	1,063	60
		$20,000	00

Improvements were also made in sanitary work at the following buildings:

No. 2	School	$1,667	22
No. 8	"	1,307	99
No. 13	"	1,487	09
No. 16	"	1,446	66
No. 21	"	2,333	92
No. 24	"	2,105	12
No. 38	"	1,789	67
No. 42	"	754	21
No. 48	"	1,597	06
No. 73	"	1,703	85
No. 93	"	2,396	48
No. 109	"	1,360	34
No. 110	"	650	39
		$20,600	00

Furnaces were installed at the following schools:

No. 4	School	$ 240 00
No. 15	"	1,482 26
No. 20	"	4,248 82
No. 21	"	1,613 20
No. 26	"	917 77
No. 44	"	2,035 18
No. 45	"	1,734 07
No. 70	"	1,500 25
No. 73	"	1,172 46
No. 77	"	1,953 01
No. 81	"	1,902 98
		$18,800 00
		$59,400 00

Considerable painting has been done to the school buildings. It is the aim of this office to keep these buildings protected with paint, and in order that this may be properly done without too much outlay at one time, the inside of a school is done one year and the outside another year.

The schools painted this year, either inside or out, were: Nos. 3, 4, 7, 11, 19, 20, 23, 24, 27, 28, 30, 31, 38, 42, 44, 45, 47, 53, 55, 68, 70, 72, 73, 79, 81, 93, 96, 100, 102, 105, 107, 110, 111, 113, at a cost of $15,210.76.

General repairs to floors, stairs, locks, fencing, paving, roofing, etc., were made to Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 55, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 70, 71, 72, 73, 75, 76, 77, 78, 79, 80, 81, 82, 90, 91, 92, 93, 94, 95, 96, 97, 99, 100, 101, 102, 103, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 118, at a cost of $79,784.84.

The painting and general repairs were done out of the appropriation for repairs to city property consolidated; the separate amounts expended on each school building will be found in the annexed table.

There are some city buildings now being used that are unfit for school purposes, and should be replaced with new ones, or improvements made in them to better their condition; and but few of the rented buildings would be used if the School Board could do better.

FIRE DEPARTMENT HOUSES.

During the year the following houses have been remodeled:

No. 9 Engine House	$ 5,846 09	
No. 15 " "	7,021 45	
		$12,867 54

And those repaired were:

Engine Houses Nos.	1	Engine Houses Nos.	12
	2		13
	3		14
	4		16
	5		17
	6		18
	7		19
	8		20
	10		21
	11		22
H. & L. Cos. Nos.	1	Chemicals Nos.	1
	2		2
	3		4
	4		5
	5		
	6		
	8		
	10		
	11		
At a cost of			14,870 68
			$27,738 22

MARKETS.

Each of the eleven markets have had some repairs and painting. Their general structural condition is only fair, but all need painting, and a majority of the roofs need considerable repairing. Amount spent on markets in total were $2,383.47.

STATEMENTS.

STATEMENT OF APPROPRIATIONS AND DISBURSEMENTS ABOUT THE OLD CITY PROPERTY.

	1903.		
Appropriated for repairs to city property, consolidated	$132,567 00	Paid out for City Hall and Annex	$5,144 67
Sanitary and other improvements to school houses	59,400 00	Court House	1,749 77
Emptying cesspools	500 00	City Jail	1,554 43
Livery and transportation	900 00	Improvement School Board and buildings	20,000 00
Incidentals	500 00	Sanitary work	20,600 00
From contingent fund	1,000 00	Installing furnaces	18,800 00
		Painting school buildings	15,607 13
		Repair to floors, roof, paving, plumbing, glazing, etc	79,784 84
		Rebuilding two engine houses	13,867 54
		Repairs to thirty engine and truck houses	13,870 68
		Repairs to markets	2,383 47
		Repairs to other property	104 47
		Paid livery and transportation	900 00
		Paid incidentals	500 00
	$194,867 00		$194,867 00

SALARY ACCOUNT FOR 1903.

Appropriation	$24,380 00	Inspector of Buildings	$3,000 00
		Assistant Inspector of Buildings	875 00
		11 Assistant Inspectors	10,920 00
		1 Furnace Inspector	1,200 00
		2 Electric Inspectors	3,300 00
		1 Clerk	1,099 92
		3 Permit Clerks	2,460 00
		1 Draftsman	900 00
		Extra help	619 61
		Balance	5 47
	$24,380 00		$24,380 00

NEW IMPROVEMENTS AS PROVIDED FOR IN ORDINANCE OF ESTIMATES 1903.

	Appropriation.	Paid Out 1903.	Balance.
Lot and building, No. 24 Engine House	$20,000 00	$4,515 47	$15,484 53
Lot and building, No. 25 Engine House	30,000 00	26,220 03	3,779 97
Saratoga and Mount Street School	50,000 00	45,221 35	4,778 65
Lot and building, No. 10 School	45,000 00	4,130 95	40,869 05
Building, shed Bowly's wharf	2,034 00	1,439 31	594 69
Building, barricks at Quarantine	7,195 50	5,050 57	2,144 93
Lavatory for Women, City Hall	1,000 00	1,000 00	.....
	$155,229 50	$87,577 68	$67,651 82

STATEMENT

SHOWING APPLICATIONS AND PERMITS, AND VALUES OF IMPROVEMENTS.

In the year 1903 applications were made for 17,268 buildings and improvements. Of which there were:

8	churches	$ 87,800 00	
2	banks	150,000 00	
8	hotels and apartment houses	1,978,500 00	
164	stores, warehouses, etc	1,557,403 00	
1004	dwellings	1,418,180 00	
431	additional improvements	205,948 00	
		$5,397,831 00	
Add	20 per cent. for reason previously given	1,079,566 20	
			$6,477,397 20

Permits were also issued for:

744	sheds	$ 89,280 00	
635	frame ext. and porches	117,475 00	
82	bath-rooms	104,000 00	
10	rear awnings	425 00	
411	franchise privileges	5,734 24	
4726	repairs to walls, sheds, etc	945,200 00	
4574	electric wiring	114,350 00	
64000	lamps 16 C. P	313,600 00	
70	hot water apparatus	49,900 00	
2	ovens	1,100 00	
1195	hot air furnaces	478,000 00	
3	supplied from heating company	1,650 00	
104	steam heating apparatus	124,800 00	
63	steam power boilers	189,000 00	
54	gas power engines	54,000 00	
6	gasoline engines	3,300 00	
193	electric motors	74,306 00	
			$2,666,120 24

3510 electric certificates were issued.

Amount carried forward $9,143,517 44

Amount brought forward..... $9,143,517 44

In addition to the above, work has been done or commenced by the city as follows, in 1903:

APPROPRIATION PAID OUT.

	1902.		1903.	
Building, No. 11 Truck House.....	$ 1,000 00	.....	$1,000 00	
Lot and building, No. 7 Truck House	19,020 59	$13,974 49	5,040 07	
Lot and building, No. 23 Engine House...	46,000 00	25,777 93	20,222 07	
Lot and building, No. 24 Engine House...	20,000 00	.....	4,515 47	
Lot and building, No. 25 Engine House...	30,000 00	.....	26,220 03	
Lot and building, No. 69 School.....	68,872 09	31,802 12	38,069 97	
Lot and building, No. 74 School.....	76,029 00	41,272 36	34,756 64	
Building Chestnut and 4th avenues.....	46,769 42	23,175 04	23,594 38	
Lot and building, No. 83 School.....	68,063 80	34,315 57	33,748 23	
Addition No. 54 School	20,000 00	9,138 25	10,861 75	
Lot and building, No. 84 School.....	68,957 00	24,707 83	44 249 17	
Saratoga and Mount Street School.....	50,000 00	.....	45,221 35	
Lot and building, No. 10 School.....	45,000 00	.....	4,130 95	
Hospital—City Jail....	3,000 00	351 90	2,538 60	
Building Shed, Bowly's Wharf.....	2,034 00	.....	1,439 31	
Building Barracks at Quarantine.....	7,195 50	....	5,050 57	
Lavatory for Women, City Hall.....	1,000 00	.....	1,000 00	301,658 56
				$9,445,176 00
Also the rebuilding and repairing of engine houses and repairs to schools, City Hall, Court House and other city buildings ...				133,567 00
Improvements and sanitary work in schools.				59,400 00
Total work in connection with this office.				$9,638,152 00

AMOUNT APPROPRIATED FOR 1904.

Repairs to city property consolidated	$152,730 08
Sanitary improvements	10,480 00
Partitions for City Engineer's Department	8,000 00
Case for Health Department	400 00
Repairs to Richmond Market Hall	15,000 00
Repairs to Broadway Market Hall	4,000 00
Improvements to School Houses and Engine Houses	26,078 09
Emptying cesspools	300 00
Eastern High School	100,000 00
School House, Forest Park	15,000 00
Addition to No. 96 School	60,000 00
School House, Patterson Park avenue	70,000 00
No. 5 Truck House	25,000 00
No. 12 Truck House	17,000 00
	$503,988 17

APPLICATIONS AND PERMITS—COMPARATIVE STATEMENT FOR THREE YEARS.

	1903		1902		1901	
	No.	Value.	No.	Value.	No.	Value.
Churches	8	87,800 00	17	$560,522 40	7	$ 35,400 00
Banks	2	15,000 00	6	332,400 00	3	154,800 00
Hotel and apartment houses	8	1,978,500 00	7	1,926,000 00	4	56,400 00
Stores, warehouses, etc	164	1,557,403 00	50	848 922 00	86	732,711 20
Dwellings	1,004	1,418,180 00	1,491	2,519,246 40	1,271	1,802,377 20
Additional improvements	431	205,948 00	510	325,606 80	182	101,389 20
Hospitals	.....	.....	.....	.....	8	134,280 00
Sheds	744	89,280 00	731	73,110 00	602	60,200 00
Frame extensions and porches	635	117,475 00	913	168,700 00	809	130,350 00
Bath-rooms	82	104,000 00	70	17,500 00	84	21,000 00
Rear awnings	10	425 00	5	200 00	10	300 00
Franchise privileges	411	5,734 24	583	13,381 00	432	5,538 54
Repairs to walls, sheds, etc	4,726	945,200 00	5,026	1,004,800 00	4,364	872,800 00
Electric wiring	4,574	114,350 00	1,387	17,400 00	.....	.....
Lamps, 16 C. P	64,000	313,600 00	.....	.....	.....	.....
Hot water apparatus	70	49,900 00	66	33,000 00	44	22,200 00
Hot air furnaces	1,195	478,000 00	1,228	184,200 00	1,238	185,700 00
Ovens	2	1,100 00	.....	.....	.....	.....
Supplied from Heating Company	3	1,650 00	.....	.....	.....	.....
Steam heating apparatus	104	124,800 00	77	77,000 00	91	91,000 00
Steam power boilers	63	189,000 00	96	192,000 00	64	128,000 00
Gas power engines	54	54,000 00	55	27,500 00	.....	.....
Gasoline power engines	6	3,300 00	5	2,500 00	25	125,000 00
Electric motors	193	74,306 00	57	17,100 00	.....	.....
	78,489	$7,928,950 24	12,380	$8,341,088 60	9,384	$4,659,446 14

STATEMENT

SHOWING CONDEMNATION AND NOTICES SENT FOR THE PUBLIC SAFETY.

	1903	1902	1901
Hotels	.....	3	.....
Churches	1	5	.....
Schools	.....	3	.....
Business places	38	36	.....
Dwellings and stables	149	248	201
Walls	573	663	405
Chimneys	66	137	28
Hall	1	.....	.....
Theatre	1	.....	.....
Violations of Building Laws	218	300	410
Repairs to rain-spouts, areas, floors, etc	.....	525	603
Fire-escapes	38	54	.....
Furnaces	81	75	.....
Electric wiring	219	114	.....
Dangerous electric work	155	82	.....
Arches, &c., to be made safe	335	.....	.....
	1875	2245	1647

STATEMENT OF INCOME FOR PERMITS ISSUED.

	1903	1902	1901
Frame sheds	$3,312 13	$3,393 75	$3,058 75
Rear bay windows	142 03	436 90	658 00
Frame extensions, porches, etc.	1,817 58	1,276 48	747 75
Bath-rooms	275 35	186 90	164 00
Rear awnings	40 00	20 00	32 00
Advertising sheds, boilers, etc.	1,205 00	1,022 40	603 00
Permits issued by order of the Board of Estimates	5,737 24	13,240 16	5,538 54
	$12,529 33	$19,577 09	$10,802 04

LIST OF PROPERTY UNDER THE SUPERVISION OF THIS DEPARTMENT.

City Hall	1
Court House	1
City Hall Annex	1
City Jail	1
Administration Building (School Board)	1
Baltimore City College	1
Eastern Female High School	1
Western Female High School	1
Polytechnic Institute	1
Colored High and Training School	1
School Buildings (owned by the city)	109
School Buildings (rented by the city)	27
Engine Houses (Fire Department)	23
Truck Houses (Fire Department)	9
Chemical Engine Companies (Fire Department)	2
Market Houses	11
Public Halls	4
Quarantine Stations	5
City Morgue	1
Belair Lot (Shed)	1
City Yard (enclosure)	1
Old Southern Police Station	1
Potter's Field	1
City Dock	1
	206

TABLE

SHOWING EXPENDITURES ON VARIOUS PROPERTIES.

City Hall			$5,108 22	
City Hall Annex			36 45	
Court House			1,749 77	
City Jail			1,554 43	
				$8,448 87
Baltimore City College			$1,673 82	
Eastern Female High School			1,501 08	
Western Female High School			1,950 07	
Administration Building			34 91	
Colored High School			635 15	
Baltimore Polytechnic Institute			5,373 83	
No. 1 School,		northeast corner Fayette and Greene streets	512 53	
2	"	Gough and Stiles streets	1,852 36	
3	"	Eastern and Montford avenues	788 64	
4	"	Hanover and Lee streets	625 93	
5	"	Broadway and Ashland avenue	297 83	
6	"	Ann street, near Canton avenue	429 90	
7	"	Mullikin street, near Aisquith	768 93	
8	"	Caroline street, near Lombard	2,330 01	
9	"	Northwest corner Fayette and Greene streets	618 28	
10	"	1724 Frederick avenue	174 38	
11	"	Gilmor and Mosher streets	2,222 98	
12	"	Barre and Warner streets	486 72	
13	"	Patterson Park avenue and McElderry street	2,585 53	
14	"	Linden avenue and Wilson st.	239 49	
15	"	Carrollton av. and Saratoga st.	4,858 45	
16	"	Harford and Ashland avenues.	2,662 36	
17	"	Light and Poultney streets	579 76	
19	"	Hollins street, near Monroe	1,390 05	
20	"	Preston and Eden streets	10,057 66	
21	"	Pennsylvania avenue and Robert street	4,398 98	
22	"	Ramsay and Scott streets	237 08	
23	"	Gough and Wolfe streets	960 37	
24	"	Fait avenue and Patuxent st	3,108 53	

No. 25	School,	Bond street, near Canton av...	$ 424 27
26	"	Orleans street, near Bond.....	1,752 62
27	"	Fayette and Chester streets...	494 26
28	"	Battery ave. and Clement sts.	1,371 87
29	"	Sharp street, near West.....	765 04
30	"	Hollins street, near Monroe..	2,870 92
31	"	Schroeder and Peirce streets.	432 48
32	"	Guilford av. and Lanvale st...	225 99
33	"	Light and Clement streets....	1,203 77
34	"	James street, near Carey.....	1,017 23
35	"	Hanover street, near Winder.	193 25
37	"	Patterson Park avenue and Biddle street.....	544 62
38	"	Chesapeake and Hudson sts...	3,201 30
39	"	Carrollton and Riggs avenues	527 25
42	"	Broadway and Bank street.....	1,382 24
43	"	High street, near Fayette.....	555 55
44	"	Sharp st., near Montgomery..	2,895 96
45	"	Greenmount av. and Eager st.	3,749 41
46	"	Division street, near Lanvale	1,004 74
47	"	Eastern av. and Patuxent st.	2,798 94
48	"	Hollins and Monroe streets...	2,824 83
50	"	Gorsuch avenue and Tyler st.	345 27
51	"	York rd., near Merryman's la.	211 50
52	"	Oak and 24th streets.	171 45
53	"	26th and St. Paul streets.....	998 62
54	"	25th street, near Charles.....	1,902 39
55	"	Chestnut avenue and 37th st.	6,861 57
57	"	Church st., nr. Merryman's la.	174 98
58	"	Woodberry av., near Hooper.	422 93
60	"	Francis and Clifton streets....	649 20
60	Annex,	Clifton street, near Penna. av.	32 56
61	School,	Linden avenue and Koenig st.	209 29
63	"	9th and Northwest streets.....	480 91
65	"	Bloomingdale road.....	444 13
66	"	Old Frederick rd., nr. 13th st.	71 21
67	"	Old Frederick rd., near Fairview	155 84
68	"	Millington av. and Lehman st.	2,084 46
70	"	William st. and Warren av....	3,731 04
71	"	Bond and Jefferson streets....	524 33
72	"	Ridgely street, near Barre.....	3,509 05
73	"	Aisquith st., near Lexington	5,137 06

No. 74	School,	22d and Cromwell streets.....	$ 227 45	
75	"	Carrollton avenue and Lexington street.....	468 40	
76	"	Hull and Clement streets.....	1,923 16	
77	"	Washington st., near Fayette	4,500 16	
78	"	Harlem av. and Monroe street	463 53	
79	"	Park avenue and Hoffman st..	1,567 13	
80	"	Eden and Federal streets.....	790 63	
81	"	Gilmor and Presstman streets.	4,741 65	
82	"	Mulberry street, near Fremont	227 76	
83	"	Lakewood av. and Orleans st.	555 76	
84	"	Johnson and Heath streets.....	1,365 12	
91	"	Penna. av. and Dolphin street	210 21	
92	"	Charles and Ostend streets.....	412 07	
93	"	Baltimore street, near Aisquith	3,942 95	
94	"	Chase and McDonogh streets..	811 96	
95	"	Lexington st., near Fremont..	328 38	
96	"	Ramsay and Smallwood sts....	953 61	
99	"	North av. and Washington st.	812 17	
100	"	Saratoga street, near Charles..	1,439 32	
101	"	Jefferson street, near Caroline	116 76	
102	"	Howard and Montgomery sts.	682 77	
105	"	Rogers av., near Lexington st.	746 10	
106	"	Hill street, near Sharp.....	1,043 80	
107	"	Biddle street, near Penna. ave.	1,698 17	
108	"	Caroline street, near Bank.....	218 38	
109	"	Barre street, near Eutaw.....	2,171 73	
110	"	Waesche street, near Fremont	3,487 55	
111	"	Bond street and Ashland ave..	453 79	
112	"	Carey and Chappell streets....	326 70	
113	"	Girard ave. and Sherman Place	796 12	
115	"	Merryman's la., near York rd	2,184 52	
116	"	Druid Hill ave., near Biddle...	244 88	
				$151,622 64

RENTED BUILDINGS.

No. 10	Branch,	833 Hollins street.....	$ 481 81	
36		2223 East Baltimore street.....	10 35	
43	Branch,	124-6 High street.....	398 02	
49		808 North Calvert street.....	272 80	
50	Branch,	Southeast corner Washington and Harrison streets.....	18 18	
51		Gilmor lane, near York road...	282 91	
59		Park Heights avenue.....	153 83	

No. 62	North avenue and Payson st...	$ 272 93	
64	North Walbrook.....	158 17	
97	117-9 Jackson Place.....	168 58	
97 Branch,	1741 East Baltimore street.....	109 70	
103	Stricker and Mulberry streets.	127 66	
103 Branch,	Edmondson avenue and Bloomingdale road.....	32 06	
111 "	Madison and Bond streets.....	88 58	
114	1611 West Saratoga street.....	165 54	
114 Branch,	Fremont and King street.....	21 07	
118	Gold and Calhoun streets.....	407 14	
			$3,169 33

MARKETS.

Richmond Market.....	$ 342 89	
Belair Market.....	71 17	
Hanover Market.....	532 91	
Cross Street Market.....	109 22	
Broadway Market.....	251 30	
Northeast Market.....	23 75	
Canton Market.....	63 99	
Centre Market.....	147 68	
Lexington Market.	643 10	
Hollins Market.....	95 01	
Lafayette Market.....	102 45	
		2,383 47

No. 1 Engine House and No. 2 Hook and Ladder Co.,	Paca street, near Fayette.....	$1,199 76	
2 Engine House,	Barre street, near Sharp	143 27	
3 "	Lombard st., near High	86 84	
4 "	Lexington st., nr. North	242 50	
5 "	and No. 3 H. & L. Co., Ann st., near Gough.	96 32	
6 "	Gay and Ensor streets..	124 60	
7 "	Druid Hill avenue and Eutaw street.....	123 11	
8 "	Mulberry street, near Schroeder.....	131 46	
9 "	Madison and McDonogh streets	5,846 09	
10 "	Columbia avenue, near Poppleton street.....	274 34	

No. 11	Engine House,	Eastern and Patterson Park avenues	$ 136 30	
12	"	Fort and Riverside avs.	184 91	
13	"	Fremont and Myrtle avs.	3,483 61	
14	"	Hollins st., near Monroe	189 87	
15	"	Lombard st., nr. Howard	7,021 45	
16	"	(Fire Boat) Thames st...	12 51	
17	"	Fort av. and Haubert st.	88 46	
18	"	21st st., nr. Maryland av.	377 63	
19	"	Bond st. and North av..	851 28	
20	"	and No 3 Chemical Co., W. North av., near 10th	158 86	
21	"	and No. 7 Chemical Co., and No. 9 H. & L. Co., Roland av. and Oliver Place	4,055 10	
22	"	Patuxent and O'Donnell streets	163 61	
No. 1	H. & L. Co.,	Harrison st., near Fayette.	123 40	
4	"	Biddle st., near Druid Hill avenue	442 54	
5	"	Aisquith st., nr. Oliver st..	14 86	
6	"	Ostend and Hanover sts....	152 58	
7	"	York road	1,321 25	
8	"	Brunswick st. and Frederick road	64 51	
10	"	Lafayette av., nr. Stricker.	139 06	
11	"	21st st. and Maryland ave...	190 99	
No. 1	Chemical Co.,	Brunswick street and Frederick road	70 54	
2	"	Maryland av. and Retreat st.	55 89	
Annex	Engine House on Gay street		170 72	
				27,738 22
City Morgue			$ 13 59	
Quarantine Hospital			69 88	
5th Regiment Armory			21 00	
				104 47
				$193,467 00

Respectfully submitted,

EDW. D. PRESTON,

Inspector of Buildings.

DEPARTMENT OF PUBLIC IMPROVEMENTS,

SUB-DEPARTMENT HARBOR BOARD.

ANNUAL REPORT

—OF THE—

HARBOR BOARD

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDED DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904.

DEPARTMENT OF PUBLIC IMPROVEMENTS,

SUB-DEPARTMENT HARBOR BOARD,

BALTIMORE, MD.

JANUARY, 1904.

N. H. HUTTON, HARBOR ENGINEER, *President.*

JOHN K. OBER, *Secretary.*

CLARENCE SHRIVER,

GEORGE R. WILLIS,

WALTER B. SWINDELL,

JAMES H. IRVIN, *Clerk.*

REPORT.

OFFICE OF THE HARBOR BOARD OF BALTIMORE,

BALTIMORE, MD., January, 1904.

To the Honorable the Mayor and City Council of Baltimore.

GENTLEMEN: The Harbor Board has the honor to submit herewith its report of the operations of this Sub-Department during the year 1903.

The several sub-divisions of public work in charge of the Board are as follows:

1. Harbor maintenance and improvement, including the maintenance and operation of the tug "Baltimore."

2. Iceboats, their maintenance, repair and operation when required.

3. Wharves, including the construction and repair of all city wharves, bulkheads, etc.; the general supervision of all wharves and bulkheads, with a view to the enforcement of all laws regulating the construction and condition of piers and bulkheads; also the granting of permits to construct, extend or alter piers or bulkheads.

4. The snpervision of "anchorages" and the enforcement of all laws and regulations relating to the anchoring of vessels in the harbor.

5. The removal of unsanitary floating matter from the harbor and docks.

6. The reception and disposal of ashes from towboats.

7. As occasion may require, the removal of vessels sunken in the harbor.

Appropriations, etc., for the year 1903 were as follows:

Salaries (Engineer and Clerk)	$ 5,200 00
Harbor (including operation and maintenance of tug)	49,382 00
Iceboats (appropriation, $14,680; received for sundry services, $290)	14,970 00
Repairs of wharves (including balance from 1902)	6,152 44
Removal of ashes	900 00
Removal of floating matter	1,350 00
Incidentals	500 00
	$78,454 44

HARBOR.

Proposals for the necessary dredging during the year were opened by the Board of Awards on April 14. The only proposal received was from the Maryland Dredging and Contracting Company, to which the contract was awarded at the following prices per cubic yard, excavated and redeposited behind the sea wall at the old Marine Hospital:

From Back Basin and docks	21 cents.
From channels, Middle Branch	20 cents.
From ship channels and harbor	18 cents.
From Anchorage No. 3	18 cents.

The increased prices for this year's work over those for the work of 1902 (about 6 cents per cubic yard) were due to the fact that dredging contractors, owing to engagements on other works, were not in condition to supply the necessary scows to convey the dredged material from 16 to 18 miles from the city to "dumping grounds" in the bay. It, therefore, became necessary, if the work was to be done, to have the material deposited behind a bulkhead, or retaining structure, near the city, where a short tow would enable a small number of scows to keep the excavating dredge continuously employed. This method requires another machine at bulkhead to raise the material dumped from the scows in front of it, and by pump or otherwise force it through pipes behind the bulkhead to such areas as it may be desired to "fill in." In 1845 the city purchased, for the purposes of a Marine Hospital and Quarantine Station, about 122 acres of ground on the west shore of

the Patapsco, about one mile south of the city limits, having a water front of seven-eighths of a mile. Owing to its proximity to the city this property was abandoned for public purposes, and in 1884 the Quarantine Station removed to Leading or Little Hawkins Point, opposite Fort Carroll. Previous to this removal a timber bulkhead, or sea wall, was constructed in front of the southern portion of this property about 1,900 feet in length, and a project to "fill in" the area between this sea wall and the shore by means of dump cars conveyed on barges, and hauled inland by tramway, etc., was commenced and continued until 1875–76. Owing to the large cost per yard for the deposit and the necessity for dredging large quantities of material for several years in order to put the harbor in suitable condition to meet the requirements of the increasing commerce of the port, both as to tonnage and draught of vessels, this matter of disposal of excavated material was abandoned, and resort was had to the deposit of this material by dump scows in the river or bay. It is doubtful if this method can be used much longer, even with the present long distance transportation to "dump grounds" in the bay. The filling of the whole water front of this property, to a level 5 or 6 feet above mean low water, would very largely increase its commercial and marketable value, and it can readily and cheaply be connected by rail with the Baltimore and Ohio Railroad and the Western Maryland Tidewater Railroad. The construction of a bulkhead or sea wall on the line of the present old bulkhead extended, to the upper or northern end of the property, would increase the area, when filled in, by over 60 acres—giving a land property of over 180 acres, with a water front of $\frac{9}{10}$ of a mile. The Board is of the opinion that the trial which it has been compelled to make this year has resulted favorably to the city's interest, and advise that this method of depositing dredged material and making land be continued, even though the immediate outlay may seem to be very large.

In the event that the city shall undertake the project as recommended, it will be necessary to revise the method of

depositing material behind the bulkhead as well as the instrumentalities through which the work is done. Under the contract the following areas have been filled to the heights above mean low wated stated. Owing to the uneven surface of some portions of the filling, and the irregularities of boundaries of areas filled, the results as stated are not exact, but believed, if they err at all, to be against the work done, rather than in favor of it:

Nine acres.....To 6 feet above low water.
Four acres.....To 2 feet above low water.
Four acres.....To about low water.

Under this contract there was removed:

From Bach Basin and docks	122,050	cubic yards.
From Middle Branch channels and docks	41,805	"
From ship channel (Fort McHenry side)	46,365	"
Making a total for the season of	210,220	"

This work was distributed as follows:

DUMPED AT OLD MARINE HOSPITAL.

Back Basin and docks—		
Jones' Falls, below Canton avenue	17,394	cubic yards
East side Jones' Falls	4,881	"
Back Basin	28,832	"
North dock, Center Pier	2,323	"
In front Drawbridge	8,752	"
East side Drawbridge	1,047	"
West side Drawbridge	1 030	"
Between Piers 2 and 3, Light street	475	"
Light and Pratt streets	709	"
Light and Lee streets	463	"
Foot Webster street	115	"
Foot Hull street	85	"
Foot Washington street	215	"
Foot Chester street	549	"
Foot Ann street	156	"
Inside bulkhead, Harris Creek sewer	4,491	"
Outside bulkhead, Harris Creek sewer	6,256	"
East of Harris Creek sewer	950	"
North side Schall's Pier	682	"
Foot Thames street	691	"
	110,096	"

Amount brought forward		110,096	cubic yards.
Middle Branch—			
Bush street channel	18,229		"
Bush street dock	17,402		"
Main channel	5,602		"
Foot Eutaw street	572		"
		41,805	"
Main channel, Fort McHenry side		46,365	"
DUMPED LOWER DUMP.			
From Jones' Falls, below Canton avenue	9,110		"
Long Dock	2,248		"
Dock in Front Bixler's	596		"
		11,954	"
		210,220	"

The total dredging done and amounts paid contractor were as follows:

Back Basin and Docks	128,070 cub. yds.,	at 21 cts	$26,894	70
	11,954 "	at 15 cts	1,793	10
Harbor and channels	46,365 "	at 18 cts	8,345	70
Channels, Middle Branch	23,831 "	at 20 cts	4,766	20
	210,220		$41,799	70

On an average of $19\frac{88}{100}$ cents per cubic yard.

The whole area covered by the dredging was:

Back Basin and docks	63,908	square yards.
Ship channels	64,444	"
Middle Branch	12,194	"
Making a total area of	140,546	"

Or about 30 acres.

The quantity dredged was 210,220 cubic yards and consequent depth of excavation was 1½ yards.

Description of work done:

The following docks in main harbor were dredged to depths, as stated, below mean low water—

Corner Light and Pratt streets	To hard bottom.
Between Piers 2 and 3, Light street	" "
Corner Light and Lee streets	" "

Lower end Long Dock	To 18 feet.
Foot Ann street	" 10 "
Foot Thames street	" 12 "
Foot Washington street	" 12 "
Foot Chester street	" 18 "
Foot Hull street	" 15 "
Foot Webster street	" 12 "
North side Schall's Pier	" 12 "
Harris Creek sewer, inside bulkhead	" 15 "
Harris Creek sewer, outside bulkhead	" 15 "
In front Bixler's Railway	" 18 "

BACK BASIN—

Was dredged over its whole area (except south dock at east end), and a portion of it a second time, to remove deposits caused by heavy rainstorms during the late summer.

From Canton avenue bridge to Basin	To 18 feet.
From west to east end	" 15 "
From approach to Drawbridge	" 16 "
Through Drawbridge (both sides of pier)	" 18 "

MIDDLE BRANCH—

The channel to Bush street dock was redredged to 16 feet for a width of 65 feet, and the dock redredged to same depth and width. The upper end of the main channel was dredged to 12 feet depth for a length of 550 feet and width of 100 feet. Deposits above 12 feet depth were removed from mouth of Eutaw street sewer.

SHIP CHANNEL—

This channel (west side) was increased in width 200 feet, 30 feet deep from lower end to Piers 31 and 32, making the channel 500 feet wide to that point.

The tug Baltimore was engaged, when necessary, during January and February in the prevention of obstruction by ice of commerce and navigation in the harbor and Middle Branch; at all other times it was employed for the general police of harbor and river and the supervision of the anchorages.

The appropriation for this work was	$49,382 00
And expenditures	49,381 93
Leaving unexpended balance	07

ICEBOATS.

The iceboats were in service for relief of commerce from obstruction by ice from January 13th to 29th, and the "Latrobe" from February 19th to 22d. The ice was not very heavy, though at times troublesome for barges and sailing vessels in tow of tugs. Special relief was afforded to the Merchants and Miners' Transportation Company, the Baltimore and Philadelphia Steamboat Company, the Sanford and Brooks Company, the Chester River Steamboat Company, and by direction of the Governor, the harbors of Eastern Bay and Miles River were relieved of obstruction from ice.

The "Latrobe" has made, by order of the Council, the following excursions:

June 6—General Synod of the Lutheran Church.
June 17—German Sængerfest.
June 30—Aged People's Outing Association.
July 1—Boys of St. Vincent's Orphan Asylum.
July 20—B. and P. Order of Elks.
October 3—Boys' Brigade.

Commencing on June 11th and ending on September 30th, this boat made 12 trips to and from Chesterwood for the Free Summer Excursion Society, conveying 15,057 passengers.

On the 6 special trips 2,502 passengers were carried, making for the year, 17,559 passengers.

During the year the rebuilding of the wheels of the "Annapolis" was completed and "smoke boxes" of boilers were renewed. Extensive repairs to the wheels of the "Latrobe" were made and both boats were painted throughout as to hulls and wood-work, wheelhouses, etc. Modern projector searchlights have been provided and fitted for both boats, for use more especially during ice-breaking season.

On November 11, 1903, the United States Inspectors of Boilers made their annual inspection of the boilers of the "Latrobe," and greatly to the surprise of the Board, reduced the pressure of steam from 60 lbs. to 45 lbs. owing to the age

of the boilers, and intimated that further reduction would be made at the next annual inspection. Request to the Supervising Inspector General at Washington to permit the higher pressure during the winter was refused. The "Latrobe" is now classed by the United States Inspectors as an excursion boat because of the extraordinary service it has to perform during the summer (by order of the Mayor and City Council) in carrying passengers, and the inspections are, therefore, very rigid. The boilers are undoubtedly old (25 years), but have been carefully and skillfully cared for by the engineers of the boat, and if it is to be used as an ice breaker, it is absolutely imperative under the ruling of the Inspector General, that new boilers be provided. The action of the Inspectors came after the estimates of this department for 1904 had been submitted to the Board of Estimates, and provision was not, for this reason, made for new boilers.

The appropriations, etc., for the iceboats were:

From city	$14,680 00	
From sundry parties for services	290 00	
		$14,970 00
From State—For the Annapolis (1903)	$5,000 00	
From State—Balance from 1902	274 05	
		5,274 05
Making total available for both boats		$20,244 05

Expenditures were:

From city appropriation—Annapolis	$4,557 08	
From city appropriation—Latrobe	10,412 92	
		$14,970 00
From State appropriation—Annapolis		5,274 05
Making total expenditures		$20,244 05

REPAIRS OF WHARVES.

The appropriation for this work was $5,000.

The following repairs and rebuilding of wharves and bulkheads were made at the costs as stated:

LONG DOCK—		
Sundry minor repairs		$ 73 74
BACK BASIN—		
New fender, piles and caps	$278 64	
New ties, piles, etc , Center Pier	485 71	
		764 35
FOOT CHARLES STREET—		
Stone retaining wall and wharf flooring		362 76
QUARANTINE STATION—		
Rebuilding wharf and repairs to sea wall		1,940 44
CITY YARD WHARF—		
Minor repairs		6 00
FOOT CALVERT STREET—		
Minor repairs		1 08
BOWLY'S WHARF AND CABLE STREET BULK—		
Minor repairs		30 30
FOOT BROADWAY—		
Relaying Belgian block pavement and filling		183 06
FOOT THAMES STREET—		
Repaving cobble pavement		26 36
WEST FALLS AVENUE—		
Repairs to bulkhead and repaving		75 46
FOOT HUGHES STREET—		
Minor repairs		5 75
General supervision of all wharves		842 98
Making a total expenditure of		$4,312 28
And leaving a balance carried over to 1904 for unfinished contracts		687 72

In addition to the appropriation for 1903 there was a balance carried over from 1902 of $1,152.44, which was expended as follows:

BACK BASIN—	
New fender piles and caps	$ 1,124 74
LONG DOCK—	
Repairs to platform	21 67
FOOT CAROLINE STREET—	
Minor repairs	6 03

REMOVAL OF ASHES FROM TOWBOATS.

The scow used for the reception of ashes was in service during the year and is now in good condition. During the year there was received from 66 towboats and 2 steamers, 42,777 bushels of ashes; 11 scow loads were unloaded behind bulkheads without cost to the city and 2 loads were unloaded at expense of the Board.

Expenditures were:

Supervision of scow	$600 00	
Supplies, etc	23 39	
Repairs to scow	33 63	
Unloading scow	24 00	
		$681 02
Unexpended balance		218 98
Appropriation		$900 00

REMOVAL OF FLOATING MATTER.

The removal of unsanitary floating matter from the harbor and docks was, during the summer months, or from May 25th to October 15th—for this purpose 2 or 3 small boats are used as circumstances may require—each boat has 2 boatmen; a superintendent of the general work controls the boats and men, and reports daily to the Board's office.

The removals during 1903 embraced the following:

653 cats.	1 frame shanty, 10 feet square.
511 dogs.	4 sides meat.
2,519 rats.	1 16-foot boat.
1,856 chunks meat.	1 log, 12x12x35.
654 fowls.	76 railroad ties.
1,526 fish.	68 tree trunks.
432 boatloads garbage.	289 pile heads.
2,250 lbs. corn beef and pork.	308 logs and boards.
61 hams.	1 drum fish, 100 lbs.
695 crabs.	1 rock fish, 60 lbs.
10 bushels alewives.	51 turtles.
1 goat.	1 raccoon.
1 sheep.	1 opossum.
1 live calf.	4 snakes (3 and 4 feet long).
119 livers.	168 bunches fish.

The appropriation for this work was $1,350.00.

Expenditures were.

Wages	$1,309 25
Outfit (nets, etc.)	12 91
Unexpended balance	27 84
	$1,350 00

WHARF PERMITS, 1903.

Applications for permits for the construction or alteration of piers, bulkheads, etc., were received during 1903 and acted upon as below:

NO.	NAME.	LOCATION.	GRANTED.
50	Balt., Ches. & At. Ry. Co.	Piers 3½, 4, 4½ and 5, Light street	February 18.
51	Canton Company	Widen Wharf, 2337 Boston street.	February 18.
52	Balt. Sanitary Cont'g Co.	Pier near south end Jackson street.	February 18.
53	Miller's Wharf	Extension east end of Thames street	March 4.
54	Canton Company	To extend Langrall's Pier east of Chester street	March 9.
55	Northern Central Ry. Co.	To extend Jackson's Whf.	March 17.
56	Wm. Numsen & Sons	To extend Ellicott's Whf.	April 2.
57	Balt. & Ohio R. R. Co.	Bulkhead foot Fell street.	April 2.
58	Hazard Wharf Company.	To change lines granted as per Permit No. 46	Not granted.
59	Balt. & Ohio R. R. Co.	Bulkhead east of Fell st.	Not granted.
60	W. Md Tidew'r R. R. Co.	Bulkhead foot Gould st.	May 6.
61	Northern Central Ry. Co.	Pier 7, south of Fifth ave.	June 4.
62	W. Md Tidew'r R. R. Co.	Two piers foot Gould st.	June 6.
63	Canton Company	Pier west of Chester st	June 6.
64	Northern Central Ry. Co	Breakwater at Elevator No. 3	July 24.
65	Balt. & Ohio R. R. Co.	Piers east of Fell street.	July 28.
66	Canton Company	Addition to Permit No. 63.	August 22.
67	W. Md. Tidew'r R. R. Co.	Guards for transfer bridge foot Gould street	Novemb'r 20
68	Balt. & Ohio R R. Co.	Addition to Permit No. 65.	December 2.

For details of expenditures and of work done, reference is respectfully requested to the annexed tabular statements.

The officers, agents and employes of the Board have faithfully performed their respective duties with zeal and energy.

Respectfully submitted.

N. H. HUTTON,
JOHN K. OBER,
CLARENCE SHRIVER,
GEO. R. WILLIS,
WALTER B. SWINDELL

TABLES.

HARBOR.

YEAR ENDED DECEMBER 31, 1903.			DR.	CR.
Appropriation.				
Ordinance No. 100, December 8, 1902				$49,382 00
Expenditures.				
Maryland Dredging and Contracting Company,	128,070 cubic yards,	21c.	$41,799 70	
	11,954 "	15c.		
	46,365 "	18c.		
	23,831 "	20c.		
Advertising			33 55	
Map Cabinet			220 00	
Supervision of Dredging			1,862 97	
Surveys			188 80	
Tug Baltimore:				
Crew	$4,320 00			
Fuel	655 63			
Repairs	183 68			
Steamboat supplies	116 15			
Subsistence	1 45			
			5,276 91	
Unexpended balance			07	
			$49,382 00	$49,382 00

SALARIES.

YEAR ENDED DECEMBER 31, 1903.	DR.	CR.
Appropriation.		
Ordinance No. 100, December 8, 1902		$5,200 00
Expenditures.		
Salaries	$5,200 00	
	$5,200 00	$5,200 00

ICEBOATS.

YEAR ENDED DECEMBER 31, 1903.			DR.	CR.
Appropriation.				
Ordinance No. 100, December 8, 1902				$14,680 00
Received for sundry services of iceboats				290 00
Expenditures.				
	*Annapolis.	F. C. Latrobe.		
Advertising	$ 9 63	$ 9 63		
Crew	2,834 81	6,680 58		
Fuel	386 11	768 74		
Repairs	573 08	1,471 58		
Steamboat supplies	172 78	943 60		
Subsistence	266 95	291 29		
Wharfage	250 00			
† Searchlight	63 72	247 50		
	$4,557 08	$10,412 92	$14,970 00	
			$14,970 00	$14,970 00

* See "State Appropriation."
† See "Incidentals."

INCIDENTALS.

YEAR ENDED DECEMBER 31, 1903.		DR.	CR.
Appropriation.			
Ordinance No. 100, December 8, 1902			$500 00
Expenditures.			
Telegrams, oaths, etc	$ 3 92		
Stamps	10 10		
Car tickets	10 00		
Directory	6 00		
Annual reports and plats	34 00		
Overhauling anchorage buoys	6 00		
Document files	75 00		
Cigars for Board	12 00		
Lunch (Board meetings on boat)	175 00		
		$332 02	
Account Annapolis:			
Searchlight		148 78	
Unexpended balance		19 20	
		$500 00	$500 00

REMOVAL OF ASHES.

YEAR ENDED DECEMBER 31, 1903		DR.	CR.
Appropriation.			
Ordinance No. 100, December 8, 1902			$900 00
Expenditures.			
Supplies	$ 23 39		
Supervision of scow and dump	600 00		
Repairs	33 63		
Discharging scow	24 00		
		$681 02	
Unexpended balance		218 98	
		$900 00	$900 00

REMOVAL OF FLOATING MATTER.

YEAR ENDED DECEMBER 31, 1903.	DR.	CR.
Appropriation.		
Ordinance No. 100, December 8, 1902		$1,350 00
Expenditures.		
Wages	$1,309 25	
Outfit	12 91	
Unexpended balance	27 84	
	$1,350 00	$1,350 00

REPAIRS OF WHARVES.

YEAR ENDED DECEMBER 31, 1903.		DR.	CR.
Appropriation.			
Unexpended balance of 1902			$1,152 44
Ordinance No. 100, December 8, 1902			5,000 00
Expenditures.			
Repairs, account unexpended balance:			
Repairs Long Dock	$ 21 67		
Foot Caroline Street	6 03		
Back Basin	1,124 74		
		$1,152 44	
Repairs, account appropriation for 1903:			
Repairs Long Dock	$ 73 74		
Back Basin	278 64		
Foot Charles Street	362 76		
Quarantine Wharf and Sea Wall	1,940 44		
City Yard Wharf	6 00		
Foot Calvert Street	1 08		
Foot Broadway	183 06		
Foot Thames Street	26 36		
Bowly's Wharf and Cable St. Bulk.	30 30		
Foot West Falls Avenue	75 46		
Center Pier.	485 71		
Foot Hughes Street	5 75		
		3,469 30	
General supervision		842 98	
Balance available for contract not complete		687 72	
		$6,152 44	$6,152 44

STATE APPROPRIATION.

YEAR ENDED DECEMBER 31, 1903.		DR.	CR.
Appropriation.			
Unexpended balance of 1902			$ 274 05
Chapter 570, Acts of 1902			5,000 00
Expenditures.			
* Iceboat Annapolis:			
Crew	$1,948 00		
Repairs	2,984 22		
Steamboat supplies	341 83		
		$5,274 05	
		$5,274 05	$5,274 05

* See "Iceboats."

Respectfully submitted.

JAMES H. IRVIN, *Clerk.*

Approved:

N. H. HUTTON, *Harbor Engineer.*

ANNUAL REPORT

—— OF THE ——

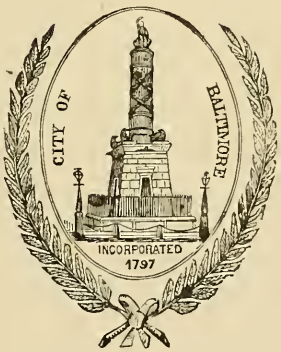
Commissioner of Street Cleaning

—— TO THE ——

MAYOR AND CITY COUNCIL OF BALTIMORE

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904.

OFFICERS AND EMPLOYEES

—OF THE—

Street Cleaning Department

FOR THE YEAR 1903.

JOSEPH L. WICKES,
Commissioner of Street Cleaning.

WILLIAM A. LARKINS,
General Superintendent.

FREDERICK G. WHELAN,
Chief Clerk.

HARRY MOALE,
Assistant Clerk.

F. W. HOFFROGGE,
Stenographer and Mileage Clerk.

District Superintendents:

WILLIAM WIEBKING, First District.
EDWARD F. CALLAHAN, Second District.
JESSE F. HALL, Third District.
JOHN T. BRADY, Fourth District.
JOHN E. GIST, Fifth District.
MICHAEL DOONAN, Sixth District.
B. T. SARBER, Seventh District.

JOSEPH WILKINS,
Superintendent of Machine Sweeping.

A. S. WILSON,
Garbage Inspector.

HUGH NOON,
Assistant Garbage Inspector.

JOSEPH W. FUNK,
Assistant Garbage Inspector.

REPORT.

BALTIMORE, MD., January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore.

GENTLEMEN: I beg leave to submit herewith my first annual report for the fiscal year ending December 31, 1903. The present Commissioner took control of this department early in October, 1903, and, while he has been in office but a short time, there are several things which have especially come to his notice and to which he should like to direct your attention. There is at present a contract in force with the Baltimore Sanitary Contracting Company for the collection and final disposition of garbage, ashes and miscellaneous refuse. This contract was made October 20, 1902, and in these specifications, under the head of "Miscellaneous Refuse," only five articles were included, viz., cans, broken glass, china-ware, paper and rags, and making no other provision for the innumerable other articles of household waste that have to be collected and disposed of. The contractors, though aware that they were not legally required to remove any of the articles excepting those actually mentioned in the specifications, removed all the articles of household waste at considerable extra expense, and without any remuneration outside of their contract price, to January 1, 1904.

This department was warned early in the fall that the contractor would discontinue doing this extra work unless some further provision was made. The Commissioner appeared

before the Board of Estimates and asked for an additional appropriation to cover this extra work, which was granted, was inserted in the Ordinance of Estimates for 1904, and was passed by your honorable body; the specifications covering this extra work were drawn up, were advertised according to law, and there being but one bidder, the Baltimore Sanitary Contracting Company, the contract was awarded to them for the year 1904.

Among the general public there seems to be a deep-rooted prejudice against having the collection of all classes of household waste done by contract, no matter how faithfully and conscientiously the contractors perform their work; although there can be no question that it will cost from fifty thousand to seventy-five thousand dollars more per annum for this department, under our present laws, to do the same work. There are many arguments on both sides of this question, and the pros and cons should be most carefully considered during the coming year. It might be added that, as a rule, the contract system of collection has been abandoned in other cities where it has been tried, and the old system of collecting directly under the Commissioner returned to.

The primary separation by householders is being rigidly enforced, that being the first and most necessary requisite for the final and sanitary disposal of perishable household waste.

The garbage reduction plant is most satisfactory, with a capacity that will take care of all the garbage of Baltimore for a generation to come, and, from a sanitary standpoint, is the most complete and up-to-date plant of its kind in the country today. The collection equipment of the contractor is also everything that could be desired, the carts being water-tight and especially designed for this work, and the horses and mules stout, strong animals. A comparison of the cost of this

service in several other cities, as compared with Baltimore, might be of interest, and is shown below :

City.	Population.	Total Cost.	Per Capita.	Remarks
New York.....	3,437,202	$ 237,000.00	$0.069	For reduction alone. Collection by city.
Philadelphia.....	1,293,697	536,700.00	0.415	Garbage alone.
" "		1,517,890.00	1,173	Ashes, household waste & street cleanings collected by city
Boston.....	560,892	609,000.00	1,086	Same service as Balto
Dist. Columbia.	300,000	216,100.00	0.720	Total street clean'ng
" "		115,000.00	0.383	City refuse.
Baltimore.....	508,957	155,041.71	0.305	Removal garbage and ashes.
" "		227,739.83	0.447	Cleaning streets and sewers.

Street Cleaning.

There have been some changes in the personnel of the department during the past year, and the present force of superintendents and foremen are a conscientious, hard-working, reliable set of men taking an interest and pride in their work, and working for the best interest of the tax payers of this city. The working force is pitiably insufficient for the work expected of it, especially as we have to meet worse conditions probably than exist in any city of similar size in the civilized world. In New York, for instance, the street cleaning department have neither markets, public buildings, school houses, bridges or sewers to take care of, they have smooth pavements and a sanitary sewerage system, and with all of this in their favor they spend about two and a half times as much per capita as we do; and, in addition, they frequently spend as much on a single snow storm as our entire annual appropriation amounts to

In view of these facts it is to be hoped that the next appropriation will be materially increased to enable this department

to give the people of the city the service they require and have a right to expect.

I present herewith appended tables showing the work done and the cost of the various branches of this department.

Respectfully submitted,

J. L. WICKES,

Commissioner of Street Cleaning.

TABLES.

TABLE A.

MONTHLY REPORT OF WORK DONE IN THE STREET CLEANING moved, Number Men Employed, Number of Street Carts Expended for Tools and Incidentals, from January 1,

Month Ending.	District No. 1. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow, etc., Collected and Removed.
Jan. 31.....	Joseph Hopps.....	335	3,378	2,277
Feb. 28.....	" "	220	3,289	5,124
Mar. 31.....	" "	322	3,503	1,724
April 30.....	" "	558	2,731	1,637
May 31.....	" "	750	1,837	1,908
June 30.....	" "	726	934	1,637
July 31.....	" "	540	1,112	1,604
Aug. 31.....	" "	1,132	1,498	1,957
Sept. 30.....	" "	872	1,229	1,661
Oct. 31.....	" "	802	1,573	2,112
Nov. 30.....	" "	449	1,517	1,414
Dec. 31.....	Wm. Wiebking	277	2,228	1,428
Total for year 1st District.....		6,983	24,829	24,483

TABLE A.

DEPARTMENT, SHOWING NUMBER LOADS COLLECTED AND RE-EMPLOYED IN EACH SEPARATE DISTRICT; ALSO THE AMOUNT 1903, TO DECEMBER 31, 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$1 898 29	$ 55 64	$ 30 93	10	22	5,990	$ 1,984 86
2,071 13	134 13	31 64	10	22	8,633	2,236 90
1,509 69	215 03	54 25	10	22	5,549	1,778 97
1,574 50	215 83	27 27	10	22	4,926	1,817 60
1,921 46	298 36	24 78	10	22	4,495	2,244 60
1,564 33	237 25	21 28	10	22	3,111	1,822 86
1,499 81	178 52	18 88	10	22	3,442	1,697 21
1,866 79	264 69	22 96	10	22	4,587	2,154 44
1,533 00	199 56	25 63	10	22	3,762	1,758 19
1,932 37	224 40	28 20	10	21	4,487	2,184 97
1,390 78	149 94	30 50	10	21	3,380	1,571 22
1,514 62	31 05	29 27	10	21	3,933	1,574 94
$20,276 77	$2 204 40	$345 59	.....	.....	56,295	$22,826 76

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department,

Month Ending.	District No. 2. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed,	Total No. Loads of Street Dirt, Sand, Snow, etc., Collected and Removed.
Jan. 31.....	Henry T. Daly.....	334	3,380	1,947
Feb. 28.....	" "	219	3,293	3,359
Mar. 31.....	" "	321	3,502	1,534
April 30.....	" "	558	2,732	1,273
May 31.....	" "	745	1,837	1,992
June 30.....	" "	542	933	1,334
July 31.....	" "	726	1,112	1,343
Aug. 31.....	" "	1,132	1,498	1,551
Sept. 30.....	" "	871	1,228	1,373
Oct. 31.....	" "	802	1,573	1,710
Nov. 30.....	" "	449	1,514	1,221
Dec. 31.....	Ed. F. Callahan.....	277	2,228	1,627
Total for year 2d District.....		6,976	24,830	20,264

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$1,892 57	$ 40 18	$ 30 93	11	24	5,661	$ 1,963 68
1,848 81	89 28	31 65	11	24	6,871	1,969 74
1,597 86	197 95	54 24	11	24	5,357	1,850 05
1,563 23	189 67	27 26	11	25	4,563	1,780 16
2,166 28	287 77	31 98	11	25	4,574	2,486 03
1,626 74	220 37	21 29	11	25	2,809	1,868 40
1,612 28	172 83	18 88	11	25	3,181	1,803 99
1,877 36	270 19	22 95	10	24	4,181	2,170 50
1,623 78	205 76	25 22	10	25	3,472	1,854 76
2,031 98	203 74	28 20	11	25	4,085	2,263 92
1,640 77	168 34	30 50	11	25	3,184	1,839 61
1,695 40	18 03	29 27	11	26	4,134	1,742 70
$21,177 06	$2,064 11	$352 37	....	.....	52,070	$23,593 54

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department,

Month Ending.	District No. 3. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow; etc., Collected and Removed.
Jan 31.....	B. T. Sarber.....	267	2,515	1,596
Feb. 28.....	" "	219	3,293	2,459
Mar. 31.....	" "	321	3,502	1,269
April 30.....	" "	558	2,731	1,193
May 31.....	" "	745	1,836	1 580
June 30.....	" "	541	931	1,287
July 31.....	" "	726	1,112	1,351
Aug. 31.....	" "	1,132	1,498	1,482
Sept. 30.....	" "	871	1,226	1,129
Oct. 31.....	" "	802	1,573	1,415
Nov. 30.....	" "	449	1,514	787
Dec. 31.....	Jesse F. Hall.....	277	2,228	880
Total for year 3d District.....		6,908	23,959	16,428

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$1,409 45	$ 55 54	$ 27 93	8	17	4,378	$ 1,492 92
1,114 94	34 27	28 65	8	17	5,971	1,177 86
1,179 48	102 30	55 74	8	17	5,092	1,337 52
1,163 48	104 67	24 26	8	17	4,482	1,292 41
1,541 15	131 39	21 78	8	17	4,161	1,694 32
1,224 99	113 62	22 78	8	16	2,759	1,361 39
1,245 83	90 34	15 88	8	17	3,189	1,352 05
1,515 94	130 02	19 96	8	17	4,112	1,665 92
1,245 65	115 49	27 13	8	17	3,226	1,388 27
1,541 63	114 22	25 18	8	17	3,790	1,681 03
1,077 24	83 17	27 50	8	17	2,750	1,187 91
1,218 46	4 24	30 77	8	17	3,385	1,253 47
$15,478 24	$1,079 27	$327 56	.....	.....	47,295	$16,885 07

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department,

Month Ending.	District No. 4. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow, etc., Collected and Removed.
Jan. 31.....	Ed. F. Callahan.....	334	3,382	3,089
Feb. 28.....	" "	221	3,293	3,476
Mar. 31.....	" "	321	3,503	1,910
April 30.....	" "	558	2,731	1,854
May 31.....	" "	748	1,837	2,264
June 30.....	" "	542	935	1,751
July 31.....	" "	726	1,112	1,853
Aug. 31	" "	1,132	1,498	2,112
Sept. 30.....	" "	871	1,226	1,652
Oct. 31.....	" "	802	1,573	2,332
Nov. 30.....	" "	449	1,514	1,617
Dec. 31.....	John T. Brady.....	277	2,228	1,664
Total for year 4th District.....		6,981	24,832	25,574

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$2,328 99	$ 95 40	$ 27 93	15	24	6,805	$ 2,452 32
2,225 18	134 02	28 65	15	24	6,990	2,387 85
1,824 77	253 99	56 23	15	24	5,734	2,134 99
1,803 23	233 29	24 26	15	25	5,143	2,060 78
2,376 98	383 52	26 78	13	25	4,849	2,787 28
1,856 99	288 92	18 28	12	25	3,228	2,164 19
1,942 33	214 35	20 88	13	25	3,691	2,177 56
2,325 59	364 63	19 93	13	25	4,742	2,710 15
1,838 78	244 37	27 63	13	25	3,749	2,110 78
2,363 33	264 22	25 18	13	25	4,707	2,652 73
1,902 01	189 46	32 50	13	26	3,580	2,123 97
1,903 58	29 80	26 27	13	26	4,169	1,959 65
$24,691 76	$2,695 97	$334 52	.....	.....	57,387	$27,722 25

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department,

Month Ending.	District No. 5. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow, etc., Collected and Removed.
Jan. 31.....	John E. Gist.....	332	3,381	3,716
Feb. 28.....	" "	221	3,293	4,943
Mar. 31.....	" "	322	3,503	2,141
April 30.....	" "	558	2,731	2,120
May 31.....	" "	748	1,837	2,566
June 30.....	" "	541	931	1,825
July 31.....	" "	726	1,112	1,887
Aug. 31.....	" "	1,132	1,498	2,289
Sept. 30.....	" "	871	1,226	1,822
Oct. 31.....	" "	802	1,573	2,186
Nov. 30.....	" "	449	1,514	1,771
Dec. 31.....	" "	277	2,228	1,603
Total for year 5th District.....		6,979	24,827	28,869

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$2,480 06	$ 171 52	$ 32 43	16	21	7,429	$ 2,684 01
2,283 28	158 38	30 64	15	21	8,457	2,472 30
1,872 14	273 68	53 24	15	21	5,966	2,199 06
1,857 45	245 66	26 27	15	21	5,409	2,129 38
2,328 50	352 74	23 78	14	21	5,151	2,705 02
1,710 13	266 26	20 28	13	21	3,297	1,996 67
1,744 50	237 71	17 88	13	21	3,725	2,000 09
2,165 73	352 80	21 96	13	21	4,919	2,540 49
1,703 87	251 48	24 63	13	21	3,919	1,979 98
2,075 31	282 30	27 18	13	21	4,561	2,384 79
1,686 24	205 71	29 50	13	21	3,734	1,921 45
1,682 94	66 34	28 27	13	21	4,108	1,777 55
$23,590 15	$2,864 58	$336 06	.....	.....	60,675	$26,790 79

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department,

Month Ending.	District No. 6. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow; etc., Collected and Removed.
Jan. 31.....	M. Doonan	333	3,379	3,305
Feb. 28.....	" "	221	3,293	7,109
Mar. 31.....	" "	322	3,503	2,687
April 30.....	" "	558	2,733	2,174
May 31	" "	748	1,837	2,983
June 30.....	" "	541	931	2,519
July 31.....	" "	729	1,112	2,416
Aug. 31.....	" "	1,134	1,500	2,811
Sept. 30.....	" "	871	1,226	2,546
Oct. 31.....	" "	802	1,573	3,224
Nov. 30.....	" "	449	1,514	2,282
Dec. 31	" "	270	2,228	2,609
Total for year 6th District.....		6,978	24,829	36,665

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$3,934 40	$ 462 85	$ 62 86	26	37	7,017	$ 4,460 11
4,089 70	439 79	65 71	25	37	10,623	4,595 20
3,264 18	620 83	81 02	25	37	6,512	3,966 03
3,185 31	594 72	52 03	25	37	5,465	3,832 06
4,041 15	832 73	51 56	25	37	5,568	4,925 44
3,068 29	639 63	44 56	24	37	3,991	3,752 48
3,116 16	584 34	40 00	24	37	4,257	3,740 50
3,726 04	883 00	54 34	24	36	5,445	4,663 38
3,098 99	610 24	54 52	24	36	4,643	3,763 75
3,729 49	663 09	58 38	24	36	5,599	4,450 96
3,098 75	531 79	56 22	23	35	4,245	3,686 76
3,309 05	246 58	62 90	28	37	5,107	3,618 53
$41,661 51	$7,109 59	$684 10	.....	.....	68,472	$49,455 20

TABLE A—Continued.

Monthly Statement of Work Done in the Street Cleaning Department.

Month Ending.	District No. 7. Superintendent.	Total No. Loads of Garbage Collected and Removed.	Total No. Loads of Ashes Collected and Removed.	Total No. Loads of Street Dirt, Sand, Snow, etc., Collected and Removed.
Jan. 31.....	Jesse F. Hall.....	335	3,379	2,882
Feb. 28.....	" "	221	3,293	5,109
Mar. 31.....	" "	322	3,503	2,057
April 30	" "	558	2,731	2,129
May 31.....	" "	748	1,837	2,633
June 30.....	" "	541	931	2,074
July 31.....	" "	726	1,112	2,138
Aug. 31.....	" "	1,132	1,498	2,770
Sept. 30.....	" "	871	1,226	2,122
Oct. 31.....	" "	802	1,573	2,667
Nov. 30.....	" "	449	1,514	2,116
Dec. 31.....	B. T. Sarber.....	277	2,228	2,017
Total for year, 7th District.....		6,982	24,825	30,714

TABLE A—Continued.

with the Cost of Same, in Each Separate District for the Year 1903.

Cost of Collecting and Removing Street Dirt, Sand, Snow, etc.	Amount Expended for Sweeping Machines, Sprinklers and Repairs.	Amount Expended for Tools, etc.	No. of Street Carts and Men Employed.	No. of Sweepers and Scrapers Employed.	Total No. of Loads of all Kinds Removed.	Total Amount Expended.
$2,430 50	$ 144 63	$ 27 43	15	22	6,596	$ 2,602 56
2,332 95	240 44	35 93	15	22	8,623	2,609 32
1,784 48	386 73	51 24	14	22	5,882	2,222 45
1,824 00	349 69	24 28	15	22	5,418	2,197 97
2,287 02	509 42	31 78	15	22	5,218	2,828 22
1,832 31	414 22	18 28	14	22	3,546	2,264 81
1,852 49	366 64	15 88	14	22	3,976	2,235 01
2,276 49	523 48	19 96	14	21	5,400	2,819 93
1,725 00	389 25	30 63	13	22	4,219	2,144 88
2,094 68	435 39	33 18	13	21	5,042	2,563 25
1,652 77	305 44	27 50	13	20	4,079	1,985 71
1,680 61	66 76	29 39	13	20	4,522	1,776 76
$23,773 30	$4,132 09	$345 48	.....	.....	62,521	$28 250 87

TABLE B.

L EXPENDITURES IN THE STREET CLEANING DEPARTMENT FOR EACH MONTH OF THE YEAR ENDING DECEMBER 31, 1903, ALSO AMOUNT OF RECEIPTS FROM SALE OF

otal No. Load of Ashes emoved.	Total No. of Loads of Street Dirt, Sand, Snow, Ice, Etc., Removed.	Cost of Collecting and Removing Ashes and Garbage.	Cost of Collecting and Removing Street Dirt, Sand, Snow, Ice, Etc.	Incidental Expenses.	Cost of Sweeping Machines, Sprinklers, Repairs, Etc.	Salaries.	Cost of Tools, Repairs, Etc.	Cost of Printing.	Cost of Cleaning Sewers and Inlets Including Tools.	Total No. of Loads Removed from Sewers and Inlets.	Total No. of Loads of All Kinds Removed.	Total Amount o Expenditur
22,794	18,812	$20,178 71	$16,364 26	$55 64	$2,079 89	$1,349 97	$240 45	.....	$978 00	736	44,612	$41,237 9
23,047	31,579	5,775 00	15,966 02	57 75	1,230 31	1,349 97	314 73	.....	971 14	901	57,069	25,664 9
24,520	13,322	18,775 00	13,032 60	114 50	2,156 61	1,266 72	352 98	$12 38	834 37	677	40,769	36,545 1
19,120	12,380	12,275 00	12,970 70	52 32	2,586 43	1,308 31	206 34	.....	771 00	692	36,092	30,170 1
12,858	15,926	12,275 00	16,662 54	94 00	2,796 66	1,350 06	216 95	.....	1,005 12	775	34,791	34,400 3
6,526	12,427	12,195 00	12,873 78	58 75	2,311 22	1,349 97	162 25	.....	994 00	738	23,479	29,944 9
7,784	12,592	12,215 00	13,012 41	124 82	2,444 51	1,350 06	148 25	.....	866 62	752	26,213	30,161 5
10,488	14,971	12,265 00	15,736 94	105 75	2,281 58	1,349 97	182 00	.....	1,113 84	603	33,988	33,035 1
8,587	12,305	12,263 00	12,769 57	40 55	2,407 77	1,349 97	215 80	.....	825 91	786	27,776	29,872 5
11,011	15,646	12,275 00	15,768 79	120 85	1,859 19	1,779 71	217 50	.....	1,165 97	802	33,073	33,187 0
10,600	11,208	12,275 00	12,521 52	68 95	1,870 29	1,441 91	196 72	26 50	823 21	774	25,722	29,224 1
15,596	11,829	12,275 00	13,031 33	105 15	1,620 63	929 20	242 65	25 50	1,108 25	422	29,789	29,337 7
172,931	182,997	$155,041 71	$170,710 46	$999 03	$25,636 09	$16,175 82	$2,696 62	$64 38	$11,457 43	8,658	413,373	$382,781 5

Printing...
Cleaning s

Tot

TABLE C.

FINANCIAL STATEMENT OF DEPARTMENT OF STREET CLEANING APPROPRIATION FROM JANUARY 1, 1903, TO DECEMBER 31, 1903.

	Amount of Appropriations.	Expended from January 1, 1903, to December 31, 1903	Credit Balances December 31, 1903.	Revenue from Sale of Refuse, etc.
Removal and disposal of garbage	$147,929 95	$147,767 95	$ 162 00	
Removal and disposal of deficiency	7,273 76	7,273 76		
Street carts and men	86,366 50	86,348 50	18 00	
Sweepers and scrapers	84,376 24	84,361 96	14 28	
Sweeping machines, sprinklers, etc	25,650 00	25,636 09	13 91	
Tools and repairs	2,697 26	2,696 62	64	
Incidental expenses	1,000 00	999 03	97	
Salaries	16,200 00	16,175 82	24 18	
Printing	100 00	64 38	35 62	
Cleaning sewers, including tools	11,466 00	11,457 43	8 57	
Total	$383,059 71	$382,781 54	$278 17	$960 10

Total amount of appropriation for the year 1903	$383,059 71
Total amount of appropriation expended	382,781 54
Unexpended balance	$ 278 17
Revenue from sale of refuse, etc.	960 10
Total transferred to City Register	$1,238 27

TABLE D.

Summary.

Total number of loads of garbage collected and removed for 1903	48,787
Total number of loads of ashes collected and removed for 1903	172,931
Total number of loads of street dirt, sand, snow and ice collected and removed for 1903	182,997
Total number of loads of refuse collected and removed from sewers for 1903	8,658
Total of all kinds removed from Jan. 1 to Dec. 31, 1903.	413,373
Total amount paid for collecting and removing garbage and ashes for year 1903	$155,041 71
Total amount paid for collecting street dirt, snow, ice, etc., for year 1903	170,710 46
Total amount paid for salaries for year 1903	16,175 82
Total amount paid for sprinkling and sweeping by machines for year 1903	25,636 09
Total amount paid for tools and repairs, etc., for year 1903.	2,696 62
Total amount paid for incidental expenses for year 1903	999 03
Total amount paid for printing for year 1903	64 38
Total amount paid for cleaning sewers and inlets, including tools, for year 1903	11,457 43
Total amount paid for year from Jan. 1 to Dec. 31, 1903.	$382,781 54
Total amount received for sale of refuse for year 1903.	$960 10
Total number of street carts employed for 1903	92
Total number of sweepers and scrapers employed for 1903.	163
Total number of sewer men for 1903	15
Total	270

NOTE—Garbage, ashes and refuse collected by contract.

TABLE E.

NUMBER OF DEAD ANIMALS, ETC., REMOVED BY CONTRACTOR FROM JANUARY 1 TO DECEMBER 31, 1903.

Dogs	3,220
Cats	7,968
Rats	1,410
Goats	8
Rabbits	69
Sheep	2
Pigs	7
Deer	1
Calves	2
Fowls	557
Total	13,244

Total number of animals removed	12,687
Total number of fowls removed	557
Total number pounds meat removed	347
Total number pounds crabs removed	78
Total number pounds fish removed	160

TABLE F.

TOTAL NUMBER OF MILES OF STREETS SWEPT BY MACHINES EACH MONTH FROM JANUARY 1 TO DECEMBER 31, 1903.

Swept in	Miles.		Amount.
January	427 40/100	Cost per month	$1,025 76
February	512 63/100	Cost per month	1,230 31
March	894 9/100	Cost per month	2,145 81
April	989 87/100	Cost per month	2,375 68
May	994 62/100	Cost per month	2,387 08
June	1,022 97/100	Cost per month	2,281 22
July	994 62/100	Cost per month	2,217 51
August	1,023 13/100	Cost per month	2,281 58
September	1,051 37/100	Cost per month	2,344 55
October	833 72/100	Cost per month	1,859 19
November	732 67/100	Cost per month	1,633 55
December	214 62/100	Cost per month	478 61
Total for year.	9,691 71/100	Total cost	$22,260 85

Average per daily sweeping, 30 96/100. Sprinkling and sweeping is done under contract; the collecting and removing by city carts and men, the sweepings in part being sold or hauled to city dumps.

NINTH ANNUAL REPORT

——OF THE——

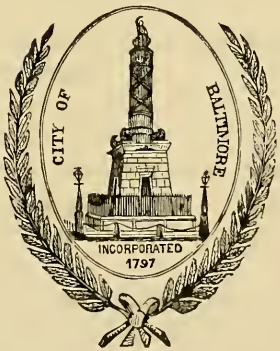
Free Public Bath Commission

——TO THE——

MAYOR AND CITY COUNCIL OF BALTIMORE

——FOR THE——

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904

FREE PUBLIC BATH COMMISSION OF BALTIMORE.

APPOINTED SEPTEMBER 29, 1903.

PRESIDENT:

EUGENE LEVERING.

VICE-PRESIDENT AND TREASURER:

WILLIAM H. MORRISS.

SUPERINTENDENT AND SECRETARY:

REV. THOMAS M. BEADENKOFF.

MARY SHERWOOD, M.D. JOSEPH E. GICHNER, M.D.
JOHN S. FULTON, M.D. GEORGE W. CORNER, JR.
MORRIS A. SOPER.

STANDING COMMITTEES.

INDOOR BATHS—WALTERS' No. 1:

G. W. CORNER, JR. MARY SHERWOOD, M.D.
MORRIS A. SOPER.

INDOOR BATHS—WALTERS' No. 2:

J. E. GICHNER, M.D. MARY SHERWOOD, M.D.
JOHN S. FULTON, M.D.

OUTDOOR BATHS:

Gwynn's Falls—J. E. GICHNER, M.D.
Winan's Beach—J. S. FULTON, M.D.; G. W. CORNER, JR.
Canton—MORRIS A. SOPER. *Women's*—MARY SHERWOOD, M.D.

The President and Vice-President are ex-officio members of all committees.

FINANCIAL STATEMENT, 1903.

EXPENDITURES.

Superintendent		$ 499 92
Salaries, Bath No. 1	$3,738 70	
Expenses, Bath No. 1	2,899 70	
		6,638 40
Salaries, Bath No. 2	$3,354 52	
Expenses, Bath No. 2	1,861 68	
		5,216 20
Salaries, Outdoor Baths (men)	$952 50	
Expenses, Outdoor Baths (men	2,400 89	
		3,353 39
Salaries, Outdoor Baths (women)	$168 00	
Expenses, Outdoor Baths (women)	894 43	
		1,062 43
Total expenses		$16,770 34

RECEIPTS.

Bath-house No. 1	$3,279 61		
Laundry, No. 1	218 03		
		$3,407 64	
Bath-house No. 2	$1,851 31		
Laundry No. 2	158 37		
		2,009 68	
Men's Outdoor Baths		462 50	
Women's Outdoor Baths		11 73	
Total receipts			5,981 55
Net expenses			$10,788 79

Respectfully submitted,

WILLIAM H. MORRISS,
Treasurer.

ANNUAL REPORT

—OF THE—

FREE PUBLIC BATH COMMISSION, 1903.

Hon. Robert M. McLane, Mayor of Baltimore.

DEAR SIR: The Free Public Bath Commission of the City of Baltimore respectfully report upon the work committed to them for the year 1903 as follows:

EXTENT OF OPERATIONS.

The Commission has under its charge two bath-houses and laundries, viz., 131–133 South High street, known as Walters' Baths No. 1, and 900–902 Columbia avenue, known as Walters' Baths No. 2. In addition to these baths, which are open all the year round, the Commission operates four summer baths on the water front, viz., at Winan's Beach, near Ferry Bar; Gwynn's Falls, near House of Refuge; Canton and Locust Point, the last named being for women only.

The accommodations at these bath-houses are as follows:

No. 1	32	cabins for	men.	14	cabins for	women.
No. 2	20	"	"	10	"	"
Winan's	120	"	"	...		
Gwynn's	40	"	"	...		
Canton	30	"	"	...		
Locust Point	...	"	"	20	"	"
	242			44		

In addition to these bathing facilities offered, two laundries are also operated, viz., at Walters' Baths No. 1 and Walters' Baths No. 2. To these laundries women bring the household wash and are thus enabled, at a very small cost for soap, to do quickly and easily a task that brings discomfort into their crowded homes. The ample facilities offered by steam-driers make it possible to finish the washing and drying with the utmost despatch.

IMPROVEMENTS AT No. 1.

In our last Annual Report we stated: "We desire to refer to our former communication relative to the enlargement of this bath-house. In that communication we were led to urge the necessity for doubling the capacity of this bath-house. For the sum of $15,000, such an addition could be made upon the lot on the rear of the present bath-house owned by the city, as should enable us to double the service rendered. The neighborhood is so thickly settled, and the patronage of the present bath so encouraging, that we believe the expenditure of this amount is almost a necessity."

The attention of Mr. Henry Walters was attracted to this statement and, with his accustomed generosity, he decided to give the amount needed, viz.: $15,000, for the enlargement of this bath-house. The work was commenced as soon as possible, and is just completed, and we now have a bath-house on High street with a capacity great enough to accommodate the crowds of patrons from this neighborhood. We cannot help feeling that what has proved true of No. 1 will be the history of all the bath-houses, and that a call for increased accommodations will come from No. 2 in the near future.

The very hearty thanks of the community are due to Mr. Walters for this, another evidence of his generous concern for cleanliness and health in these crowded parts of our city.

No. 3 BATH-HOUSE.

In our last Report we stated that a site for this new bath-house, which had been made possible by the gift of $25,000 by the same generous donor, Mr. Henry Walters, would soon be secured. Since that time we have purchased a lot, 43x140 feet, Nos. 1020-1022 Argyle avenue, near Greenwillow street, and will soon begin the erection of a house for the accommodation of the people of that neighborhood. The fact that the colored people have so few facilities in their homes for bathing has decided the Commission to open this house

for colored people, in the strong belief that it will be as popular as the other bath-houses in the city. The delay in the work of erecting this bath-house has been due to the advance in the price of material, but we hope to begin operations at once, and have the bath-house ready for use in the summer of this year.

PATRONAGE.

The patronage of the baths shows a decided improvement over last year. The total increase in the number of patrons was 38,578. The following tables will serve to show the comparative patronage contrasted with 1902:

STATISTICAL TABLES.

	BATH NO. 1.		BATH NO. 2.	
	1902.	1903.	1902.	1903.
January	4,250	7,365		2,935
February	4,162	7,557		3,283
March	7,059	10,070	Opened April 1.	4,934
April	8,167	11,961	3,671	5,180
May	11,690	16,297	5,160	8,152
June	14,321	13,267	6,263	6,344
July	17,088	17,572	7,488	9,151
August	14,182	14,407	6,679	7,453
September	9,360	10,637	3,556	6,170
October	7,794	7,594	2,764	4,487
November	7,259	5,697	3,180	3,494
December	5,843	6,025	2,206	3,352
	111,175	128,449	40,987	64,935

STATISTICAL TABLES—*Concluded*

	OUTDOOR BATHS.		LAUNDRIES.	
	1902	1903.	1902.	1903.
January			326	493
February			334	409
March			246	424
April			141	319
May			173	281
June	17,252	11,811	170	262
July	21,915	25,569	246	244
August	11,923	10,576	196	230
September	1,575	1,469	227	189
October			236	190
November			305	230
December			456	371
	52,665	49,435	3,056	3,642

SUMMARY.

1902—Walters' Baths, No. 1	111,175	bathers.
Walters' Baths, No. 2	40,987	"
Outdoor Baths	52,665	"
Laundries	3,056	
	207,883	
1903—Walters' Baths, No. 1	128,449	bathers.
Walters' Baths, No. 2	64,935	"
Outdoor Baths	49,435	"
Laundries	3,642	
	246,461	

CHARACTER OF PATRONAGE.

Men and boys outnumber other classes of patrons of the bath-houses, the record showing 203,190 men and boys and 43,271 women and girls. All sorts and conditions of men and women make up this large number—men and boys who come in to wash off their dust and grime after 10 or 12 hours of factory work; men from the close quarters of the sweat-shop; the oyster dredgers, just home from their dangerous and dirty work on the pungy, as well as students who live in crowded boarding-houses, and who find the public baths admirably adapted to their needs.

The chief patronage, however, comes from residents of the immediate neighborhood of the baths, and to a large extent the patrons are regulars who find the city equipment exactly suited to the needs of themselves and their families. The patrons of the laundries are of two classes—women who bring the family wash and men dredgers and others who find the public laundry the place suited to wash and dry quickly their only suit of underclothing. The laundry is reserved on Fridays and Saturdays for the use of men exclusively.

BATHS IN SCHOOL-HOUSES.

The question of establishing bath-houses in connection with some of the school-houses in crowded neighborhoods has had the careful attention of your Commission. Such school baths are in use in other cities, and, after correspondence with the School Board of Baltimore, we have learned that similar provision in some school-houses of our city would be acceptable to them. The expense incident to this far-reaching improvement would not be great, and we hope soon to present to the Mayor and City Council a plan that commends itself to the judgment of all concerned.

The Commission continues its policy in regard to school children. Baths without charge are given to all children sent to the bath-houses by the teachers of the public schools.

WOMEN'S BATHS.

The accommodations for women and girls at the two bath-houses (Walters' No. 1 and No. 2) are ample and well patronized. During the past summer a new outdoor bath-house was opened at Locust Point on a convenient strip of water front. The patronage was not large, but the cool summer is perhaps sufficient explanation of this. We believe the experiment is worth a still further trial, and we propose to operate this bath during the coming summer.

SWIMMING BATHS IN PARKS.

In our last Report the Commission referred to the importance of securing water front for the establishment of permanent swimming places and recreation baths for the use of women of the city. While no progress has been made in the direction of purchasing water front, we have been able thus far to lease desirable places for outdoor baths. Much attention has been given in other cities to the development of swimming baths in the public parks, and your Commission believe that in connection with the athletic grounds and outdoor gymnasia already so generously provided, swimming pools might well be established at such parks as Patterson, Clifton and Carroll.

METHOD OF ADMINISTRATION.

The Commissioners are convinced after several years' experience that their policy of furnishing each bather with towels and soap for a small fee has been of great advantage. The total receipts from this source in 1903 was $6,000. Compared with the method in other cities where no charge is made, where the bather is at great inconvenience in supplying himself with soap and towels, our system produces much better results. Cleveland, Ohio, in its recently opened municipal bath, has adopted our system. The municipal baths in Boston and New York may be cited to indicate the comparative advantage of the Baltimore system.

BOSTON—

Expended in 1902 on its bath-houses and beaches	$109,543.00
Total number of bathers, outdoor and indoor baths	2,505,505
Receipts from bathers	$7,683.95

NEW YORK—

Spends annually on maintenance of baths	$100,000.00
Annual patronage, about	5,500,000

No receipts from baths.

BALTIMORE—

Maintenance of baths, 1903	$16,770.34
Total number of patrons	246,461
Receipts from patrons	$5,981.55

MUNICIPAL BATHS.

If anyone was disposed to question the wisdom or justice of appropriating money from the treasury for public baths, the Report herewith would be a sufficient answer. There is a justification even stronger than the report, viz., the modern city and its abnormal conditions: Crowded tenements and districts are in themselves a menace to health, and every provision that a city can make for the health, recreation and cleanliness of its citizens, is no longer regarded by scientific authorities as a luxury nor charity, but a public necessity and obligation.

ACKNOWLEDGMENTS.

The Commission is under continued obligation to the police department for courtesies and help rendered. Much of the success of the outdoor baths is due to the good order maintained, and this is made possible by the presence of special officers detailed for this purpose.

Respectfully submitted,

EUGENE LEVERING,
President.

ANNUAL REPORT

—OF THE—

Collector of Water Rents and Licenses

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE,

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1903

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904

OFFICERS AND EMPLOYEES

— IN THE OFFICE OF THE —

COLLECTOR OF WATER RENTS AND LICENSES

DECEMBER 31, 1903.

J. SPENCER CLARKE,
COLLECTOR.

OTIS C. BROWNLEY,	General Bookkeeper.
A. STANLEY WIER,	Cashier.
JAMES J. SCULLY,	Chief Clerk.
CHARLES R. P. BROWN,	License Clerk.
PERCY L. REINHART,	Meter Clerk.
AUGUSTINE A. DOYLE,	Ledger Clerk.
MATTHEW T. VALENTINE,	Ledger Clerk.
FREDERICK W. LUSTNAUER,	Ledger Clerk.
WILLIAM E. BUSEY,	Ledger Clerk.
WILLIAM E. MARTIN,	Ledger Clerk.
ALFRED C. SMITH,	Ledger Clerk.
ROBERT K. LEWIS,	Ledger Clerk.
JAMES E. BURKE,	Ledger Clerk.
JAMES E. WELSH,	Inspector and Bill Distributor.
GEORGE A. VERNETSON,	Inspector and Bill Distributor.
SAMUEL A. HART,	Inspector and Bill Distributor.
THOMAS F. HERR,	Inspector and Bill Distributor.

REPORT.

DEPARTMENT OF FINANCE,
SUB-DEPARTMENT OF
COLLECTOR OF WATER RENTS AND LICENSES,
CITY HALL.

BALTIMORE, January 1, 1904.

To the Honorable the Mayor and Members of the City Council:

GENTLEMEN:

It is my pleasure to submit for your consideration this, my Annual Report, presenting a review of the management of the affairs connected with this Department for the year ending December 31, 1903.

The number of water-takers for the year 1903 was 101,183, an increase of 1,032 over the year 1902.

The collections made of water rents, plumbing bills, etc., amounted to $862,197.55, and were more than those of 1902 by $1,756.67.

From these collections $923.45 were returned by errors caused by mistakes in statements of property-owners and allowances for vacancies.

The total receipts from licenses amounted to $80,621.11, which is $2,002.64 more than in 1902.

I most respectfully recommend to your Honorable Body the necessity of two more ledger clerks and two additional inspectors, the former to prevent the great rush in this Department at certain seasons of the year, and the latter to look after "New Discoveries," make inspections and give more atten-

tion to their districts in general. The city at present is divided into four districts, one inspector to each, and by this addition to the force they would also be able to discover who had not secured licenses, which branch of this Department should be looked after more than it has in the past.

I feel convinced in making this recommendation that a large revenue could be gained for the city through the additional inspectors asked for, both in the receipts for the Water Department as well as in licenses, and by the adoption of these suggestions the service would be improved to an immeasurable degree.

Our force in this office up to and including 1899 was twenty-five (25) employees, who handled only the collections of the Water Department. In 1900 it was reduced to seventeen (17) men, notwithstanding the collections of licenses was transferred from the Comptroller's Office to this Department, which gives much additional work.

It is a further pleasure for me to commend the untiring efforts of all the employees in this Department, and especially note their willingness to serve the public promptly, courteously and with accuracy.

The accompanying tabulated statements set forth in detail the work accomplished:

A—Collections of water rents.

B—Expenditures.

C—Monthly receipts of water rents.

D—Abatements.

E—New supplies and ferrules returned.

F—Balances remaining on ledgers December 31, 1903.

G—Revenue shown by ledgers January 1, 1904.

H—Receipts for licenses.

All of which is respectfully submitted.

J. SPENCER CLARKE,
Collector of Water Rents and Licenses.

STATEMENT A.

Collections Made for Water Department During the Year 1903.

		Dr.	Cr.
To water rents for 1904	$8,151 00		
Less discount	407 52		
		$7,743 48	
To water rents for 1903	$424,533 31		
Less discount	14,183 39		
		410,349 92	
To water rents for 1902		125,575 84	
To water rents for 1901		5,015 00	
To water rents for 1900		2,416 48	
To meter rents		276,684 35	
To interest on back water rents		3,736 36	
To plumbing bills		23,240 80	
To meter plumbing		5,730 32	
To vacancies		250 00	
To turn-offs		1,455 00	
By deposits with City Register:			
January			147,589 72
February			159,634 68
March			52,388 55
April			92,130 52
May			53,789 15
June			64,002 58
July			80,045 88
August			12,750 90
September			13,857 26
October			77,761 06
November			46,747 45
December			61,499 80
		$862,197 55	$862,197 55

STATEMENT B.

Expenditures During the Year 1903.

Appropriation made by Mayor and City Council:		
For expenses, including $385,250 for interest on water loans	$387,511 00	
For salaries	22,600 00	
		$410,111 00
Amount expended for expenses	$381,049 51	
Amount expended for salaries	22,596 50	
		403,646 01
Amount unexpended, which includes $5,250 for interest on 1943 loan, which was not used		$6,464 99

STATEMENT C.

Receipts of the Collector of Water Rents and Licenses from Water Rents for the Year 1903.

	January.	February.	March.	April.
Water rents for 1903	$69,058 96	$146,618 57	$36,558 17	$15,777 71
Water rents for 1902	14,887 58	11,245 95	11,293 63	10,061 32
Water rents for 1901	183 92	261 83	271 99	179 84
Water rents for 1900	100 00	161 50	53 00	89 50
Meter rents	61,915 12	364 06	1,750 47	63,319 96
Plumbing bills	967 03	685 02	1,884 07	2,146 29
Meter plumbing	319 74	94 62	351 75	293 50
Int. on back water rents	106 37	157 13	204 47	229 40
Turn-offs	5 00	14 00	11 00	9 00
Vacancies	46 00	32 00	10 00	24 00
	$147,589 72	$159,634 68	$52,388 55	$92,130 52

STATEMENT C—Continued.

	May.	June.	July.	August.
Water rents for 1903	$12,309 69	$16,792 00	$8,550 46	$6,017 11
Water rents for 1902	34,301 44	35,705 90	3,211 11	1,356 32
Water rents for 1901	924 66	1,193 33	420 83	186 42
Water rents for 1900	211 81	474 67	107 00	214 50
Meter rents	2,458 48	4,199 41	65,255 11	1,835 59
Plumbing bills	2,177 22	2,887 01	1,705 77	2,208 96
Meter plumbing	367 73	497 30	359 19	778 87
Int. on back water rents	976 12	1,259 96	171 41	110 13
Turn-offs	43 00	973 00	244 00	38 00
Vacancies	19 00	20 00	21 00	5 00
	$53,789 15	$64,002 58	$80,045 88	$12,750 90

	September.	October.	Nov'm'br.	Decemb'r.
Water rents for 1904			$246 06	$7,497 42
Water rents for 1903	$7,227 85	$7,500 95	37,857 64	46,080 81
Water rents for 1902	560 59	268 14	1,510 36	1,173 50
Water rents for 1901	39 75	168 50	598 33	585 60
Water rents for 1900	97 00	145 00	582 50	180 00
Meter rents	3,142 62	66,769 40	2,515 01	3,159 12
Plumbing bills	2,020 32	2,473 00	2,608 61	1,477 50
Meter plumbing	681 42	349 04	543 74	1,093 42
Int. on back water rents	45 71	61 03	241 20	173 43
Turn-offs	32 00	18 00	20 00	48 00
Vacancies	10 00	8 00	24 00	31 00
	$13,857 26	$77,761 06	$46,747 45	$61,499 80

Total water rents for 1904	$ 7,743 48
Total water rents for 1903	410,349 92
Total water rents for 1902	125,575 84
Total water rents for 1901	5,015 00
Total water rents for 1900	2,416 48
Total meter rents	276,684 35
Total plumbing bills	23,240 80
Total meter plumbing	5,730 32
Total interest on back water rents	3,736 36
Total turn-offs	1,455 00
Total vacancies	250 00
	$862,197 55

STATEMENT D.

Abatements Condensed for the Year 1903.

	No.	Delinquent.	Current.	Total.
January	226	$ 687 67	$ 764 65	$ 1,452 32
February	331	540 11	1,279 05	1,819 16
March	208	313 61	1,501 47	1,815 08
April	294	365 18	856 48	1,221 66
May	471	986 78	1,040 59	2,027 37
June	430	1,589 04	678 62	2,267 66
July	279	878 04	942 87	1,820 91
August	176	358 73	570 03	928 76
September	124	192 73	253 58	446 31
October	226	127 89	436 70	564 59
November	164	591 09	459 39	1,050 48
December	247	394 20	810 74	1,204 94
	3,176	$7,025 07	$9,594 17	$16,619 24

STATEMENT E.

New Supplies and Ferrules Returned for the Year 1903.

999 new supplies at $12	$11,988 00
94 new supplies at $8	752 00
224 new supplies at $6	1,344 00
538 joint supplies at $6	3,228 00
49 ferrules returned at $2	98 00
	$17,410 00

STATEMENT F.

Balances Remaining on Ledgers December 31, 1903.

Current water rents	$70,512 08
Delinquent water rents	4,139 38
Meter rates	2,248 41
Plumbing bills	4,867 96
	$81,767 83

STATEMENT G.

Revenue Shown by Ledgers January 1, 1904.

98,583 houses, yielding a revenue of	$505,626 00
Estimated revenue from meters and indicators	286,00 00
	$791,626 00

STATEMENT H.

Receipts from General Licenses for the Year 1903.

One-horse wagons	$17,885 59
Two-horse wagons	11,481 00
Three-horse wagons	537 00
Four-horse wagons	272 00
Six-horse wagons	217 00
Carts	3,932 00
Drays	133 00
Cabs	195 00
Hacks	605 00
Package carts	797 50
Coal oil	737 75
Theatrical permits and licenses	2,904 75
Telegraph and telephone poles	14,970 00
Cars	2,740 00
Scows	468 00
Billiard tables	1,267 50
Pool tables	756 09
Bagatelle tables	445 00
Bowling alleys	370 83
Pawnbrokers	1,000 00
Privies	419 65
Bacon	979 20
Sausage and pudding	140 00
Merchandise (women)	62 50
Fruit	151 00
Numbers replaced	57 25
	$63,524 61
Received for dog licenses	17,096 50
Total receipts	$80,621 11

ANNUAL REPORT

—OF THE—

Superintendent of Public Buildings

—TO THE—

Mayor and City Council of Baltimore

—FOR THE—

Fiscal Year Ending December 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904.

Annual Report.

Office of Superintendent Public Buildings,
City Hall, Baltimore, Jan. 1st, 1904.

To the Honorable, the Mayor
and City Council of Baltimore.

Gentlemen:—As provided by law, I beg herewith to submit my annual report of the operations of the Department of Superintendent of Public Buildings for the year ending December 31st, 1903.

Having filled the office less than three months, I can only report in a general and somewhat indefinite manner as to what was done by my predecessor during the nine months prior to my taking charge.

Soon after entering upon my duties I made an inspection of the several buildings under my supervision. I found them generally in good condition, but not without room for improvement in some respects. In saying this I do not mean to reflect upon the administration of my predecessor, for I was not long in discovering that the appropriation at his command was inadequate to meet requirements in many respects.

CITY HALL.

While the City Hall compares favorably with executive buildings of other large cities, I find its general interior in many parts shows badly the need of repainting and frescoing. The walls and ceilings in most of the rooms are dingy and black from the effect of time. I would therefore suggest that this improvement be made under the supervision of the proper authorities.

Much of the furniture in the Hall is old, dilapidated and out of date. For lack of any appropriation for new furniture it has been impossible for the Superintendents to better this condition in any material degree. From the general fund of the Department, however, about $650 was expended during the year in placing new furniture where actual necessity demanded it. This had to be done at the expense of other branches of the Department. In my judgment the city could well afford an appropriation of $10,000 for new furniture in this building. I would especially recommend that means be provided for redecorating and furnishing the Mayor's apartments.

One of the most notable improvements in the Hall during the year was the redecoration of the Council Chambers and rooms connected therewith. New carpeting has also been placed in the Second Branch Chamber and on the hallway connecting the two Chambers, and within a few weeks new draperies will be hung in the Chambers and the furniture in both Branches reupholstered. The paintings will also be renewed and the frames thereof regilded. When these improvements are added the Chambers will present a beautiful and creditable appearance.

A very desirable and much needed improvement in the Hall, to be made in the near future, will be the conversion of the useless old armory on the third floor into office rooms and corridor, to conform with the achitecture of the rest of the building. This will relieve to some extent the cramped condition of a number of the offices, notably in the City Engineer's Department, and will add much to the convenience, comfort and appearance of that portion of the building.

I wish to call your attention to the fact that the heating plant in the Hall, installed at the time of the erection of the building, is now required to do much more work than when new, and is taxed to its fullest capacity to keep the building comfortable in cold weather. Only within the last two years have the heating pipes been extended to the third and fourth

floors. Many of the pipes of the plant (especially those under ground) are weakened from rust and long service, and during my short incumbency of the office of Superintendent several breaks have occurred, of a trivial nature, but necessitating the drawing of fires from the furnaces, and allowing the Hall in some parts to become cold while repairs were being made. Owing to these unavoidable conditions, I would recommend that during the coming spring and summer the plant be thoroughly overhauled, and new pipes put in places of all such as might be liable to burst during the winter. I consider this a matter of grave importance, and trust the necessary provision will be made for proceeding with the work as soon as possible. Otherwise serious consequences may result at a time when we can least afford them, in cold weather. I would also recommend that water gauges be put on the boilers to provide against any possibility of danger from low water. Experience has taught me the necessity of having competent licensed engineers in charge of this plant.

For the betterment of the service of this Department, I would recommend that the number of watchmen in the City Hall be increased from three to five. There should be two watchmen in the Hall at night, and three during the day, in order to give the building proper protection. It is hardly possible for one man to make frequent rounds through the building at night, and at the same time keep proper watch at the Holliday street door, which must be kept open until after midnight. The services of such extra watchmen would only be required during the winter months, as after the fires are drawn in the spring two of the firemen can be used as watchmen, until it is necessary for them to renew the fires in the late fall.

I would further recommend that the capacity of the lift motor running the City Hall elevator be increased, so as to dispense with electricity, and run the elevator by water entirely, not even using the pressure tank, but discharging into the sewer direct. This would relieve the generators in

the Court House (from which our supply of electricity is obtained) very materially, which I find are working almost to their full capacity. This change could be made at a nominal cost, as the motor and tank dispensed with could probably be sold for a sum sufficient to almost cover the expense. The cost of operation would be less than under the present system, and I believe the service would be more satisfactory.

Upon investigation I found much defective wiring in the Hall, which the Inspector of Buildings has had corrected.

COURT HOUSE.

This building, one of the finest and most beautiful of its character in the country, is in a cleanly and well-preserved condition, considering the deteriorating effect of the dirt and smoke arising from the power plants in large buildings nearby which burn soft coal, and, judging from appearances, have no smoke-preventing devices. The effect of this smoke is made manifest by the discoloration of the south and west facade of the building, which, in contrast with the east and north side, would appear to be older; and much damage is done to the interior during the summer, when windows are often open.

The only improvements of note made at this building during the year were the overhauling of and installing new plates in the electric batteries, and the removal thereof to a room better adapted to the preservation of the plates by reason of its freedom from the oppressive heat from hot-water pipes, to which the batteries were subjected in the former room. This work was done under contract with the Storage Electric Battery Company, under supervision of the Inspector of Buildings.

The four elevators were also overhauled during the past summer, and now run with regularity, and give little trouble.

The filterers which purify the water passing through the building were also thoroughly overhauled and repaired recently.

The thermostats and heating apparatus have given con-

siderable trouble, but have recently undergone some repairs, and are now working to their full capacity. The temperature regulating devices are delicately constructed, and require frequent expert attention to keep them in proper working order. I would therefore suggest that about September of each year these be carefully gone over and put in thorough condition, so as to insure proper heat in the building during winter.

I find that when the cold gets below fifteen degrees the plant as constructed is hardly capable, by the best handling, to generate sufficient heat to give a temperature of seventy degrees in all parts of the building, and during time of repair to any breaks in pipes it often becomes uncomfortably cold in parts remote from the boilers, and many just complaints are made thereof.

I would recommend that in order to ascertain what is being accomplished each day and hour by the plant that the following improvements be added to the boilers, generators and pipes:

Three hot-water meters for measuring the quantity of feed water used by the boilers, two of them for three and one-quarter inch pipe, and one for two and one-half inch pipe; also one meter for measuring the supply to the building.

Two thermometers for insertion into the feed-pipe to ascertain the temperature of the feed-water.

A substantial platform scales to weigh the coal.

Either a totaling wattmeter, or a wattmeter for each machine, by which to obtain the electrical output.

A steam-engine indicator to ascertain the work being done by the engines, and to make proper adjustment of same.

That the screens in the fan rooms be made double. As they now are, considerable dirt passes through.

I would also suggest that storm-doors be placed at all four entrances to the Court House. This would add much to the comfort of the building in cold weather.

The interior appearance of the building would be vastly improved by repainting and frescoing the walls and ceilings

in many of the rooms and corridors, which have become tarnished by smoke and gases. The exterior woodwork is also in need of repainting.

In view of the fact that my coal appropriation is $2,085.00 less than the cost of coal consumed during the year just closed, I would suggest that the above improvements to the plant be made as soon as possible, in order to give me an opportunity of ascertaining the cause for the consumption of so much coal, and, I hope, aid me in lessening it. I have now no means of knowing whether or not I am getting the full benefit of the coal consumed.

I find that the election booths stored in the cellar of the Court House are much in the way, besides greatly increasing the fire risk in the building, and would recommend that some more appropriate place be obtained for storing them. Their frequent removal in and out has also resulted in damaging the building to some extent.

CITY HALL ANNEX.

The City Hall Annex, occupied by the Health Department, Topographical Survey and Bay View offices, is in a cleanly and comfortable condition, but by no means attractive in either interior or exterior appearance. During the past year about $1,000 was expended in furniture and floor coverings in this building, which were badly needed. The offices of the Health Commissioner and his assistants, and the large room occupied by the Health Wardens, have been covered with linoleum. Separate desks have also been provided for the Wardens in place of the long tables before used in common by them all. In addition to this, other furniture, cases, curtains, etc., have been added during the year.

I have endeavored to pay special attention to the cleanliness of the buildings under my supervision, and think in this respect they compare very favorably with public buildings generally. One unfortunate condition at the Court House is

that several of the departments, under the law, employ their own charwomen, but are not allowed a sufficient number to do the work properly. The Superintendent has no jurisdiction over the cleaning in these departments, though this fact is not generally known, and he frequently receives censure for what he is not responsible. The laws authorizing this condition were passed when the departments occupied buildings in which there was no general superintendent, and have never been repealed. It is my opinion that better results could be obtained if the Superintendent of Public Buildings had charge of the entire cleaning force in all parts of the building.

I am endeavoring to conduct the department on an economical, business basis, and trust my efforts will produce results which will receive both your own and the public's approval.

Very respectfully yours, &c.,

ISAAC A. MILLER,
Superintendent Public Buildings.

REPORT

—OF THE—

CITY LIBRARIAN

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

YEAR ENDING DECEMBER 31, 1903

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

CITY LIBRARIAN'S REPORT FOR 1903.

DECEMBER 31, 1903.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: In making this, my first report, I cannot urge too strongly that a more liberal policy be pursued toward the City Library. This suggestion has nothing to do with funds for the purchase of stationery, etc., the appropriation annually made for this purpose being ample, but I would earnestly request that means be provided for better preservation of the archives, documents, etc., of the city.

There has accumulated since the time of Baltimore Town a great quantity of papers, which from the standpoint of antiquity and historical value, aside from possible intrinsic worth, should be preserved. These are stored in rooms on the fourth floor of the City Hall, and are a miscellaneous collection of over one hundred years. The rubbish in the rooms should be cleaned out, and the rooms themselves prepared for the reception of modern filing devices. The work of inspecting, segregating, indexing and filing away the documents in question should be done so that they can be conveniently had when necessary. Receptacles must be provided for these papers from the very beginning, else no successful effort can be made to arrange them. Every conceivable place in the Library is filled with papers, relics culled from the great mass. Bundles have been brought down stairs and gone over, and in some instances most interesting papers have been found. This, however, is a very unsatisfactory way to proceed, and, in fact, will never be productive of satisfactory results. Documents thus saved are merely stuffed away in drawers pending better facilities for taking care of them, and these thus saved represent only the proverbial "drop in the bucket." The "carnival of confusion" is being added to and aggravated yearly, and the problem just how to attack the dirty heap is becoming more vexed.

I am glad to say His Honor the Mayor has given me encouragement that this state of affairs will shortly be brought

to a close. I am now preparing an estimate of the possible cost of carrying into execution the suggestions given, and at the proper time will be able to give the Board of Estimates tangible information on this subject. I am glad to report I have assurances that sundry old maps and plats now in the custody of the City Librarian will be redrawn and certified copies made, so that the originals, some of which are parchment, will be filed away for safe keeping, and their better preservation assured.

In compliance with the Charter, bids for stationery, blank books and printing were advertised December 4, 1903, and opened December 16. December 23 they were rejected upon recommendation of the Librarian because of the unsatisfactory character of the proposals. It became necessary for the Librarian to buy in the open market pending a readvertisement for bids beginning the new year 1904, without contracts.

I might explain that as the result of a decision by the City Solicitor the above proposals were not considered by the Board of Awards as heretofore, but by the Mayor, City Comptroller and City Register. City Solicitor Bruce ruled that the provisions of the City Charter relating to contracts did not apply to those for stationery, blank books and printing, the City Librarian's contracts being governed by Article XXXII of the City Code. The proposals were, therefore, considered and rejected by the Board given above.

There has recently been added to the library a number of useful publications, and consistent efforts are being made to increase the efficiency of this department in every direction. The Library has just been catalogued, and a complete index of the books prepared.

I append herewith a statement of the expenditures and receipts of the Library for the year ending December 31, 1903.

Very respectfully yours,

WILBUR F. COYLE,
City Librarian.

Financial Statement.

CITY LIBRARY—EXPENSE ACCOUNT.

DEPARTMENTS.	Stationery.	Printing.	Books.	Total.
Appeal Tax Court	$ 115 20	$ 36 00	$ 147 80	$ 299 00
Baltimore City Jail	154 72	25 88	84 76	265 36
Board of Awards	4 50			4 50
Board of Estimates	8 25	1 50		9 75
City Collector	222 35	1,525 26	585 25	2,332 86
City Comptroller	96 13	113 76	63 20	273 09
City Engineer	338 21	127 75	202 86	668 82
City Library	155 11	799 09	69 75	1,023 95
City Register	86 03	69 00	278 50	433 53
City Solicitor	155 05	45 60	68 20	268 85
Collector of Water Rents and Licenses		149 25		149 25
Commissioners of Free Public Baths		42 50		42 50
Commissioners of Opening Streets	4 84	11 50		16 34
Commissioner of Street Cleaning	60 31	154 00	82 75	297 06
Fire	171 20	184 50	623 50	979 20
Harbor Board	47 48	59 50	1 80	108 78
Harbor Master		3 85*		3 85
Health	963 49	977 25	903 80	2,844 54
Inspector of Buildings	78 49	144 75	197 45	420 69
Mayoralty	74 09	101 00	8 10	183 19
* Municipal Statistician	8 52	321 40	345 00	333 37
Superintendent of Lamps and Lighting	42 51	82 25	45 10	169 86
Superintendent of Public Buildings	41 03	22 75	25 50	89 28
Supervisors of City Charities	174 24	291 16	138 89	604 29
School Board		2,726 98	136 75	2,863 73
Topographical Survey	19 19	9 00	24 00	52 19
	$3,020 94	$8,025 48	$3,691 41	$14,737 83

*Nine months.

Amount Expended for other Departments.

Appeal Tax Court	$ 27 00
Board of Finance	1,295 00
City Comptroller	100 00
City Engineer	100 00
City Solicitor	23 70
Collector of Water Rents and Licenses	550 47
Commissioner of Street Cleaning	60 50
Electrical Commission	743 52
Fire	180 18
Inspector of Buildings	1 25
Mayoralty	76 26
Parks and Squares	329 21
School Board	351 85
Water	1,783 74
	$5,622 68

CITY LIBRARY—SALARY ACCOUNT.

Librarian's salary		$ 1,500 00
First Assistant's salary		900 00
Second Assistant's salary		687 50
		$3,087 50

Summary.

Amount appropriated for stationery, printing and books, various departments		$14,200 83
Amount expended for same	$14,737 83	
Balance to surplus funds	37 00	
Amount appropriated for salary account		3,150 00
Amount expended for salary account	3,087 50	
Balance to surplus funds	62 50	
Amount refunded by Board of Estimates for charters and city ordinances published by City Library		574 00
	$17,924 83	$17,924 83
Balance to surplus funds—Expense account	$37 00	
Balance to surplus funds—Salary account	62 50	
Total	$99 50	
Cash receipts for year	$81 50	

FORTY-FOURTH ANNUAL REPORT

— OF THE —

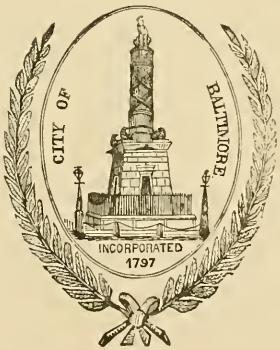
Commissioners for Opening Streets

— TO THE —

MAYOR AND CITY COUNCIL OF BALTIMORE

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31, 1903.



BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTER.

1904.

REPORT.

OFFICE OF THE COMMISSIONERS FOR OPENING STREETS.

BALTIMORE, January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore.

GENTLEMEN:

We have the honor to submit to you a statement of the operations of this Department from January 1, 1903, to December 31, 1903, inclusive.

The following list comprises the streets, alleys, etc., in process of opening and closing.

STREETS, ALLEYS, ETC., IN PROCESS OF OPENING.

NAMES OF STREETS.	No. ORD.	APPROVED.
*Morton alley, from John st. to Hoffman st	96	May 25, 1882
*Henry st., from Clement st. to Fifth lane	77	May 14, 1885
*Elizabeth lane, from Randall st. to Heath st	54	May 2, 1888
*Dallas st., from Oliver st. to Hoffman st	115	Oct 16, 1888
*Ropewalk lane, from Randall st. to Heath st	36	April 26, 1889
*Towson st., from Fort ave to Marriott st	70	May 23, 1889
*Florence st, from Fulton ave. to Retreat st	99	June 8, 1889
*Francis st., from Retreat st. to Whitelock st	101	June 8, 1889
*Morris alley, from North ave. to Druid Hill Park.	103	June 8, 1889
Stoddard alley, from Mosher st. to McMechen st.	148	Oct. 9, 1889
*Nicholson st., from Decatur st. to Cooksie st	161	Oct. 28, 1889
Ridgely st., from Ostend st. to Gwynn's Falls	77	May 8, 1891
*An alley 10 ft. wide, from Second st. to First st.	111	June 4, 1891
*Neighbor st., from McKim st. to Greenmount ave	106	May 28, 1894
An alley 15 ft. wide, from Gold st. to Bloom st.	23	Mar. 6, 1893
*Windsor ave., from North ave. to Clifton ave	26	Mar. 20, 1894
*Canton ave., from Cannon st. to Luzerne st	67	May 15 1895
*Wolfe st., from North ave. to Clifton Park	112	Nov. 11. 1898
*An alley 10 ft. wide, from Orleans st. to Jefferson st., bet. Central ave. and Eden st	29	April 5, 1898
*An alley 9 ft. 9 in. wide, from Monument st. to an alley 10 ft. wide, bet. Caroline st. and Spring st	29	April 5, 1898
*An alley 10 ft. wide, from the south side of Madison st. to an alley 10 ft. wide, bet. Caroline st. and Spring st	29	April 5, 1898
*An alley 10 ft. wide, from the north side of Madison st. to the south side of Chew st., bet Caroline st. and Dallas st	29	April 5, 1898
Abell st., from the north side of Thirty-first st., or Waverly ave., to the southwest side of Merryman's lane	69	June 10, 1902

*Recommended for repeal.

STREETS, ALLEYS, ETC., IN PROCESS OF CLOSING.

Names of Streets.	No. Ord.	Approved.
Point lane, from Ensor st. to North ave	84	May 23, 1882
*Valley, from Barre st. to Welcome alley	91	Oct. 8, 1885
Butchers' lane, from Calhoun st to North ave	61	May 2, 1888
*Fourth lane, from Hanover st. to Light st	22	Mar 29, 1889
*Brown's lane, from Eden st. to Caroline st	111	June 10, 1889
Clifton Place, from Truxton st. to Eager st	111	Oct. 17, 1892
Grove st , from Truxton st. to Eager st	111	Oct. 17, 1892
Truxton st., from Forrest st. to Concord st	111	Oct. 17, 1892
Half Moon alley, from west of Chesnut st.	99	May 25, 1891
*Comet street, from a 10-foot alley to a fence corner there situated	103	May 27, 1891
*An alley 33 feet wide, from York rd. to about 138 ft. south of Huntingdon ave	25	Mar. 6, 1893
*An alley, from Madison st. to an alley 10 ft. wide, bet. Eden st. and Spring st	29	April 5, 1898
West Falls lane, from Wells st. to a point 85 ft. 7 in. southerly	88	June 7, 1899
Apple or Jew alley, from the south side of Monument st. to the north side of the Old Joppa rd	99	Nov. 24, 1902

*Recommended for repeal.

F. E. BOND,
HENRY YEWELL,
JAMES H. MARINE,
Commissioners.

George Chesley, *Clerk.*

ANNUAL REPORT

—OF THE—

CITY ENGINEER

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

FISCAL YEAR ENDED DECEMBER 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

OFFICERS

—OF THE—

CITY ENGINEER'S DEPARTMENT

B. T. FENDALL.....City Engineer.
GEO. M. BOTELER.....Chief Clerk and Paymaster.
JAMES R. DUNLOP.....Permit Clerk.
JOSEPH S. CLARKE.....Bookkeeper.
EUGENE F. RODGERS.....Stenographer.
ALFRED HOLLYDAY.....General Inspector.
GEORGE H. ZIMMERMAN.....Inspector.
WILLIAM T. GARRETT.....Inspector.

Sub-Division of Bridges and New Paving.

O. W. CONNET.....Assistant City Engineer.
JAMES A. PAIGE.....Assistant Engineer.
FRANK K. DUNCAN.....Assistant Engineer.
THOMAS C. HARRIS.....Draughtsman.
L. C. MILLER.....Clerk.
JOSEPH B. MAGUIRE.....Footway Inspector.

Sub-Division of Sewers.

NEWTON M. GRAY.....Assistant City Engineer.
R. K. COMPTON.....Assistant Engineer.
B. LATROBE WESTON.....Assistant Engineer.
HENRY F. SIEMERS.....Draughtsman.
J. J. O'LEARY.....Superintendent.

Sub-Division of Street Repairs.

JOHN S. PATTERSON.....Assistant City Engineer.
JOHN S. DOYLE.....Assistant Engineer.
JOSEPH L. WICKES (resigned Oct. 1).....Assistant Engineer.
H. F. DOUGHERTY.....Clerk.
W. W. STOCKHAM.....Paving Inspector.
CHARLES A. HEIL.....Superintendent City Yard.
JOHN F. IRETON.....Assistant Supt. City Yard.

Instructions to Foremen and Other Employees.

1. Foremen must be on the ground not later than 7.45 A.M. in order that the work may begin promptly at 8 o'clock.

2. Eight hours constitute a day's work, and each man will be allowed only for the actual time worked.

3. The hours for every working day will be from 8 o'clock A.M. until 5 o'clock P.M., with one hour, 12 o'clock noon to 1 o'clock P.M., for dinner. On Saturdays the hours may be from 7 A.M. to 4 P.M.

4. Gangs must not be worked overtime when it can be avoided.

5. Foremen must not leave the work without permission. If anything is needed, report it to the Engineer in charge, his assistants, or send a message to the City Hall. When necessary for Foremen or men to be at the City Hall, business must be promptly transacted; they will not be allowed to remain in or about the Hall.

6. Foremen will be held responsible for the amount and character of work done, and for the orderly behavior and industry of their men.

7. Foremen must lay out the work for their men and not select a paver to act as boss paver over the other men.

8 Foremen must not allow mechanics, pavers, rammers or carters to work as laborers, except at the wages of a laborer, unless expressly authorized to do so by the Engineer in charge.

9. Work must be so planned as to obstruct travel and inconvenience the public as little as possible. Refuse material must not be allowed to accumulate on the work. Streets must be in safe condition when the force leaves, and the proper lights and guards set.

10. A careful record must be kept of each man's time, with the dates, location, kind of work, and all facts necessary to make up correct pay-rolls and accounts of the work, and reported to the Engineer in charge or his assistants.

11. Foremen must keep a careful record of all tools and materials received and delivered; they will be held responsible for the economical use of materials, and must account for all losses and breakage of all tools. All broken or worn-out tools must be returned to the Property Yard.

12. No repaving must be done on rainy days, when the ground is soft, and the sand too wet. No time to be allowed on rainy days except for service rendered.

13. It must be the constant effort to have good work done at the least cost to the city.

14. As little time as possible must be lost in moving from one job to another, and Foremen must learn in advance where they are to go next.

15. Any employee who shall absent himself from the work, without good and sufficient cause, will be dismissed and his place filled by another man.

16. Any employee found under the influence of liquor, or using profane and abusive language, negligent, insubordinate, or in any way interfering with or obstructing the work, shall be promptly suspended by the Foreman. A written report, giving the facts in the case, must be immediately transmitted to the Engineer in charge, signed by the Foreman.

17. Foremen must not frequent saloons under any pretext whatever during working hours, nor permit anyone under their charge to do so. Anyone not complying with this order will be liable to dismissal.

18. All orders or tickets for material on Property Yard, or on Contractors, must be written and signed by the Foreman.

19. Foremen will in all cases make written reports of any accident, of however trifling a nature, that may occur on their work, giving date, names and addresses of witnesses, etc.

20. Any employee on the work who shall solicit contributions of Contractors furnishing material, or of any other person, will be dismissed at once.

21. Foremen will be provided with copies of specifications for materials, and must carefully read the same, and must accept only material in accordance with said specifications.

22. The use of the city's tools or materials by any one, in doing private work in or out of working hours, is strictly forbidden; any violation of this order will be followed by immediate dismissal.

23. Foremen must carefully read the foregoing rules, familiarize themselves with them, and see that those employed under them also fully understand the rules.

REPORT.

DEPARTMENT OF PUBLIC IMPROVEMENTS,
SUB-DEPARTMENT OF CITY ENGINEER.

BALTIMORE, MD., January 1, 1904.

To the Honorable the Mayor and City Council of Baltimore:

SIRS: I respectfully submit the following report of the operations of the City Engineer's Department for the year ended December 31, 1903, being the fourth I have had the honor to forward.

There were no appropriations made in the Ordinance of Estimates for the year 1903 for new improvements, and the only work done by the Department, other than ordinary repairs and maintenance, has been the completion of certain pieces of work previously provided and contracted for in the year 1902, certain minor pieces of street paving paid for by assessment, the construction of the sewer under Twenty-ninth street for Sumwalt Run, and two large drain pipes constructed for the Inspector of Buildings, to take the water closet drainage from the new Schoolhouse No. 69, at Smallwood street and Walbrook avenue, and Schoolhouse No. 55 at Fourth and Chestnut avenues. The sewer under Twenty-ninth street will form a part of the main storm-water sewer for the drainage of Sumwalt Run basin, and funds for the construction of the work as it now stands came from various sources, as recited in detail by Assistant City Engineer Gray in his report. The funds for the schoolhouse drains came from the appropriations of the Inspector of Buildings, and from a sum set aside for the purpose by the Board of Estimates from the Contingent Fund of 1903.

Twenty-one new inlets to existing storm-water drains were constructed during the year. These inlets are most beneficial during severe rain storms in lessening the volume of water flowing in the gutters; they also help to some small degree in mitigating the intolerable conditions due to ice in cold weather. Thirty-eight inlets were provided with manholes in order to facilitate cleaning the inlets, all as recited in former reports. Four much needed manholes to main sewers were constructed where they were required, in order that the sewers may be safely and properly inspected and cleaned.

Extensive repairs were made to the following sewers, viz.: Jenkins Run, Centre street, Lovegrove alley, and Central avenue. A large number of inlets were repaired, remodeled and trapped, giving increased efficiency and better sanitation. Full details as to location, character and cost of these repairs, improvements and additions to our storm-water sewers will be found in the report of Mr. Gray, to which I have already referred.

The streets paved in 1903 from appropriations made in 1902 are: East North avenue from Harford avenue to Broadway (this completes the original plan of paving North avenue from Greenmount avenue to Broadway, as per the Ordinance of Estimates for 1902); McCulloh street from Lanvale street to Lafayette avenue; West North avenue from Pennsylvania avenue for a distance of one hundred and fifty feet westward; Fulton avenue from Pennsylvania avenue to Druid Hill avenue; Warren avenue from Light street for a distance of 1,380 feet eastward. All of these several pieces of pavement were laid by John L. Robertson, Contractor. The material used was asphalt blocks laid on a concrete base. The blocks are of superior quality and were manufactured in Baltimore at the Maryland Pavement Company's works. The material and workmanship are first-class, and there is no apparent reason why we should expect anything but the best results in the future. So far there has been nothing but favorable criticism. In addition to the foregoing pieces of asphalt

block the following streets were paved with the same material and paid for by assessment on the abutting property. The streets are: Eutaw Place from North avenue to Whitelock street, and Ashland avenue from Patterson Park avenue to Chester street. They measure up to the same standard of excellence as the streets paved by direct appropriation, and are the same as to the materials and workmanship. Hoffman street from Bond street to Broadway was paved with vitrified brick under the assessment plan.

It is with regret that certain pieces of cobble paving are reported. The streets so paved are: Fayette street and the Philadelphia road from Luzerne street to Patapsco street; Brunt street from Baker street to Bloom street; Rose street from Fairmount avenue to Fayette street; Montford avenue from Townsend street to Gay street, and Carey street from Columbia avenue to Ward street. All of this cobble paving was paid for out of assessments on the abutting property. An improved pavement on these several streets was deemed inexpedient for the following reasons, viz.:

1. The streets were not great thoroughfares used by the general public.

2. The paving previously laid and still in existence for the most part of the length of the several streets is cobble.

3. An assessment for an improved pavement was more than the property would stand.

4. The cobble, while far from being entirely satisfactory, was a great improvement over a very filthy and often impassable road.

Calvert street from Baltimore to German streets was paved with wooden blocks laid on a six-inch bed of Portland cement concrete. This kind of pavement is something new and distinctly different from the old Nicholson pavements used thirty-five years ago, and which proved so unsatisfactory. The work was done by the United States Wood Preserving Company, and the blocks used are treated by the creo-resinate process, patents for which they control. The

methods they use prevent or at least greatly retard the rotting of the blocks, and good results are expected. How long the pavement will last is an unknown quantity, but there is abundant proof that it is greatly superior to the Nicholson. The sample of creo-resinate wooden block laid on Holliday street in 1901 is in excellent condition to-day, showing no signs of deterioration so far.

Considerable work was done during the year in repairing and remodeling bridges. The most important was the remodeling of the Mount Vernon avenue bridge. This structure was changed from a railway bridge to a highway bridge having a driveway twenty feet wide, and sidewalks five feet wide on both sides of the driveway. The total length is 650 feet. The bridge was transferred to the city as part payment for the "Curve Franchises" granted the United Railways and Electric Company by Ordinance No. 103, approved January 16, 1901. The bridge is most helpful to the operatives in the Mount Vernon Cotton Mills, and gives a more direct line to Druid Hill Park from that section of the city east of Oak street and north of North avenue, by way of the Cedar avenue bridge, instead of by the very circuitous Remington avenue route.

The old wooden bridge carrying the Calverton road over Gwynn's Run has been replaced with a concrete semi-circular arch 12 feet 6 inches span.

Wooden bridges on Beech avenue and Union avenue were replaced with permanent culverts constructed of armored concrete or ferro concrete. The wooden floors on several bridges were replaced with ferro concrete sub-structure and vitrified brick surface, where such construction was possible, and in other cases, where the details of the bridge would not permit the use of concrete and brick superstructure, creo-resinate plank sub-floor with creo-resinate block surface was used as being the next best plan in the matter of permanency.

The wing walls of Merryman's avenue bridge over Stoney Run and Union avenue bridge over Jones' Falls were lengthened and the wooden trestle approaches were filled in solidly with earth.

All of these changes in bridges are in line with the policy pursued for the last four years of getting rid of flimsy wooden structures requiring constant repairs, and replacing them with stone, iron and concrete, thus reducing to a minimum the cost of repairs in future years.

The iron bridges throughout the city have received the most careful attention, and have been scraped and cleaned of rust and then thoroughly painted. It is unfortunate that a lack of money prevented the purchase of a sand blast outfit for cleaning our bridges. The sand blast is probably cheaper than the present method of removing rust and scale by hand, with scraper and steel brush, and there can be little doubt that the blast is far more efficient.

Assistant City Engineer Connet has given with great care the details of the work done on improved pavements and in the reconstruction of various bridges. These details explain the methods pursued and give the items of cost in such form as to be most valuable for future reference, and will be of interest to the general public as well as to the technical man.

The amount of cobble repaving done during the year 1903 is less than for several preceding years. This is due to the fact that an unusually large sum was expended in repairing sheet asphalt pavements, leaving the balance, from the appropriation for the repairs of roads and streets, available for cobble, much less than preceding years. In addition to this, the Belgian blocks on Light street, from Pratt to Lee street, were in very bad shape; so bad, in fact, as to require rebuilding. Owing to the great volume and importance of the traffic on Light street, after careful investigation, the conclusion was reached that the new pavement should be laid on a 6-inch concrete base, and in order that the least amount of incon-

venience might be experienced by the users of Light street nearly all the work was done at night and on Sundays. The concrete base in itself added much to the expense, and necessitated the excavation of the entire street to the depth of 9 inches, causing a further increase. The night and Sunday work added fifty per cent. to the labor bill, but this was unavoidable. To have done the work otherwise than as it was done would have produced an intolerable condition. The paving now on Light street is first-class, and will cost nothing for maintenance for a long time. The total cost of the work, including grading and concrete base, was $2.83 per square yard, a very low figure when due consideration and allowance is made for all the adverse conditions and surroundings.

The unprecedented rain storms in the summer caused much damage to embankments, drains and paving. The expense on this account further depleted our fund for repairs of roads and streets, against which account all such expenses were charged.

The cost per square foot of cobble repairs advanced this year as compared with previous years. This was largely due to increased cost of materials, and some slight increase in the cost of labor; also to the disorganization of our gangs through men leaving the foremen without notice to take work with various private corporations doing paving in the city.

The most extensive repairs to sheet asphalt were made on Baltimore street, east of Broadway; Broadway, north and south, and Front street. The patches were large and are under a five-year guarantee; the smaller patches carry a one-year guarantee. The amount necessary for the maintenance of sheet asphalt in 1904 will be less than usual.

At the end of the season the bridges, culverts, sewers and improved pavements are in excellent condition, but the same cannot be said of the cobblestone work. The cobblestone pavements were not in as good condition when we called in the repair gangs as they were in 1902. This is most unfortu-

nate, but unavoidable. The winter has set in very early and with unusual severity; should the cold spell continue, the spring will find us with a great deal of very bad cobble paving to be repaired, and the patience of our citizens will be taxed to the uttermost limit before the Department can possibly do the work necessary to relieve the situation.

A large number of footway crossings have been laid at various street intersections over the entire city. In the report of Assistant City Engineer Patterson the cost and location of each crossing is shown in the table headed "Account of Expenditures on Footway Crossings." With few exceptions these crossings are of vitrified brick. The brick crossing is more satisfactory to pedestrians and costs about one-third of what a flag crossing costs.

The Department did a large amount of work for the Chesapeake and Potomac Telephone Company over cuts made by them in constructing their new conduits.

The Steam Heating and Refrigerating Company laid a number of conduits during the year, and are now furnishing heat and refrigeration to a number of houses along the streets they traverse. The company, from the best information obtainable, is giving satisfactory service to its patrons. The work done by them during the year was done to the entire satisfaction of this Department and without any friction.

The United Railways and Electric Company have relaid several of their tracks with a new 9-inch girder, semi-grooved rail. The rail is the best rail for street traffic of any used in Baltimore up to the present time. The adoption of this rail as the standard for all construction and renewals in the future is most desirable, and is strongly recommended by the officers of this Department.

The Baltimore and Ohio Railroad Company relaid their Pratt street track with rails similar in section to those used by the street railway company. The new rails are a great improvement to Pratt street.

The Philadelphia, Baltimore and Washington Railroad Company have covered their open cut at or near Mount Royal and North avenues and will ventilate their tunnel by means of fans and a shaft; the shaft is constructed north of North avenue near McMechen street on the company's lot, and connected with their tunnel by means of a conduit under the bed of North avenue. The work they have done is first-class in every respect, and will undoubtedly greatly relieve that section of the city from the smoke and noise of passing trains.

The construction of the Western Maryland Tidewater Railroad is being pushed vigorously and with as little inconvenience to the people along the line as possible. This Department has an inspector on the work at all times to see that the blasting and other operations are carried on properly and that the city's rights are duly considered and protected.

The table on page 13, showing mileage and area of paved and unpaved streets, has been revised and corrected, from actual measurements, to date, and the mileage and area of alleys added. The data given in this table will be of value in getting up preliminary estimates for the repaving of all streets and alleys with improved pavements.

It is a pleasure to report that the cordial relations heretofore existing between this Department and the other City Departments continue to the great benefit of this branch of the city's service.

The subordinate officers of this Department and the employees generally have been faithful and zealous in the discharge of their various duties, and I have been greatly aided by their energy and loyal support. Without such support nothing of moment could have been accomplished.

B. T. FENDALL,

City Engineer.

GENERAL INFORMATION.

The total mileage and area of paved and unpaved streets and alleys in the City of Baltimore, corrected to December 31, 1903, is as follows:

Kind of Surface.	Streets.		Alleys.		Totals.	
	Mileage.	Sq. Yds.	Mileage.	Sq. Yds.	Mileage	Sq. Yds.
Cobblestone	264.1	4,483,070	109.0	757,830	373.1	5,240,960
Belgian block	43.1	816,190			43.1	816,190
Sheet asphalt	9 3	225,700			9.3	225,700
Asphalt blocks	11.5	273,350	0.1	400	11.6	273,750
Vitrified brick	4.5	81,830	0.4	2,619	4.9	84,449
Mosaic block	1.8	25,770			1.8	25,770
Wooden block	0.1	2,960			0.1	2,960
Macadam	47.3	629,940			47.3	629,940
Unpaved	48.9	837,010	6 3	53,360	55.2	890,370
Totals	430.6	7,375,820	115.8	814,269	546.4	8,190,089

NOTE.—The classification here made is: Where the thoroughfare is paved and curbed and footways provided, it is called a street, regardless of its width.

All thoroughfares twenty feet and under which are not curbed, paved and provided with sidewalks, are classified as alleys.

AREA OF THE CITY.

Land area	30.141 square miles.
Harbor area	1.507 "
Total area	31.648 "

ELEVATION ABOVE MEAN LOW TIDE.

The highest elevation in the city is near Garrison and Oxford avenues, West Arlington	461.0 feet.
Elevation of street pavement at the base of Washington Monument	99.3 "

LENGTH OF CITY SEWERS.

Brick sewers	28.60 miles.
Stone sewers	6.25 "
Concrete	.48 "
Terra-cotta pipe sewers	5.63 "
Cast-iron pipe sewers	2.90 "
	43.86 "

The above does not include the length of sewers owned by private parties.

Statement of Permits Issued by the City Engineer's Department During the Year 1903.

The permits issued during the year numbered 4,991, an increase of 444 over that of 1902. Classified they are as follows:

To the Consolidated Gas Co. to lay service pipes	891
To the Consolidated Gas Co. to repair service pipes	484
To the Consolidated Gas Co. to lay mains	163
To the Consolidated Gas Co. to repair mains	146
To the Water Department to open improved streets	64
To the Baltimore County Water and Electric Co. to lay service pipes	5
To the Baltimore County Water and Electric Co. to repair service pipes	2
To the Baltimore County Water and Electric Co. to repair mains	4
To construct telephone conduit and manholes	139
To change and repair telephone conduit and manholes	16
To lay refrigerating and heating mains	3
To repair refrigerating and heating mains	2
To lay refrigerating and heating services	16
To construct railway tracks	5
To change and repair railway tracks	17
To lay steam and other pipes	4
To repair steam and other pipes	9
*To lay drain pipes	399
To clear and repair drain pipes	329
To construct manholes over drain pipes	3
To dig test holes	30
To open footways to lay water supply pipes	421
To open footways to repair water supply pipes	503
To open footways to lay waste water pipes	355
To open footways to repair waste water pipes	64
To erect, replace, change and renew telegraph poles	13

*This includes drains for closets and plumbing fixtures, surface water, manholes and street railways tracks; in fact, all drains which connect with city sewers or private drains.

To remove telegraph poles	4
To erect, replace, change and renew telephone poles	132
To remove telephone poles	18
To erect, replace, change and renew electric line and lamp poles	115
To remove electric line and lamp poles	6
To erect, replace, change and renew trolley poles	22
To remove trolley poles	4
To erect, replace, change and renew police and fire alarm poles	2
To erect, replace, change and renew anchor guys and poles	35
To erect, replace, change and renew barber and hitching posts	35
To reset and straighten kerb	82
To renew kerb	28
To cut kerb	25
To repair and repave footways	41
To construct and repair driveways across footways	60
To plant trees along footways	92
To kerb streets	9
To pave street	1
To repair streets	28
To temporarily obstruct footways and streets	88
To place gasoline tanks under footways	3
To place tan bark or sawdust	3
To construct and repair gutters across footways	22
To construct covers over street gutters	5
Miscellaneous	44
Total	4,991

Report Showing Amount and Character of Drain Pipes Laid and Class of Buildings Drained During the Year Ended December 31, 1903.

Terra Cotta Pipes.

Size.	Feet laid.
4 inch	1216.5
5 "	1358 0
6 "	10947.5
8 "	11276.5
10 "	2110.0
12 "	502 0
15 "	862 0
Total	28272.5

Cast Iron Pipes.

4 inch	566.0
5 "	201.0
6 "	423 0
8 "	912 0
10 "	70.0
12 "	115.0
Total	2287.0

Recapitulation.

Terra Cotta Pipe	28272.5 feet.
Cast Iron Pipe	2287 0 feet.
Total length	30559.5 feet, or 5.8 miles.

Class of Buildings Drained.

Dwellings	793
Apartment Houses	4
Hotels and Halls	7
Factories and Warehouses	63
Stables	2
Public Schools	12
Engine Houses	3
Churches	5
Total	889
Connections made to city sewers	57

Moneys Received by the City Engineer's Department During the Year 1903.

There was received in the City Engineer's Department during the year 1903 $34,205.50, which was duly forwarded to the City Register.

Receipts by months, account private paving and inspection:

January	$955 42
February	921 64
March	1,240 54
April	1,611 14
May	408 22
June	461 05
July	621 76
August	7,301 84
September	5,421 84
October	4,153 18
November	4,355 24
December	5,062 08
	$32.513 95

Received from the sale of old material, revenue account, $1,591.55.
Received from rental of crushers, revenue account, $100.

FINANCIAL STATEMENT.

The City Council Made the Following Appropriations, Provided for in the Tax Levy of 1903.

	Appropriation.	Received from Contingent Fund and Other Sources.	Balance Carried Forward from 1902.	Total Available.	Total Expended.	Balances Dec. 31, 1903.	Balances to Sinking Fund.	Balances Available for 1904.
Repairs of roads, streets, etc	$180,450 00	$1,026 88		$181,476 88	$181,476 88			
Repairs of sewers	24,500 00		$1,191 97	25,691 97	24,831 56	$860 41		$860 41
Maintenance of bridges and culverts	34,060 00	1,775 00		35,835 00	35,541 58	293 42		293 42
Paving and repairing cross streets	7,500 00		323 58	7,823 58	7,823 58			
Livery and transportation	1,200 00			1,200 00	1,200 00			
Footway crossings	6,000 00		88 99	6,088 99	5,834 78	254 21		254 21
Maintenance of Light street bridge	7,880 00			7,880 00	7,870 36	9 64	$9 64	
Incidentals	500 00	7 50		507 50	507 50			
Maintenance of property yard	1,500 00			1,500 00	1,469 30	30 70	30 70	
Advertising	1,000 00			1,000 00	981 27	18 73	18 73	
Improvements in and additions to drainage system	7,000 00	51 00	169 37	7,220 37	7,220 37			
Maintenance of Block street bridge	1,350 00			1,350 00	1,350 00			
Paving in front of city property	3,000 00		2,261 85	5,261 85	4,511 79	750 06		750 06
Salaries	28,680 00			28,680 00	28,679 82	18	18	
Ogier Run sewer			33 08	33 08	33 08			
Grading and kerbing Calvert street		81 63	714 13	795 76	795 76			
Grading and kerbing Twenty-ninth st		1,600 00	958 24	2,558 24	2,558 24			
Widening North avenue at Peck's Run			1,593 17	1,593 17	1,593 17			
Sumwalt Run sewer		1,400 00		1,400 00	1,400 00			
Sewer for School No. 69		4,251 50		4,251 50	3,444 50	807 00	807 00	
Totals	$304,620 00	$10,193 51	$7,334 38	$322,147 89	$319,123 54	$3,024 35	$866 25	$2,158 10

REPORT OF TELEPHONE, TELEGRAPH, ELECTRIC LIGHT AND OTHER POLES BELONGING TO THE VARIOUS COMPANIES, AND STANDING IN THE CITY OF BALTIMORE, BY ACTUAL COUNT, AS OF JANUARY 1, 1904.

	Subject to City Tax.	In Private Streets and Alleys.	Total.
United Electric Light & Power Company	3,231	24	3,255
Chesapeake and Potomac Telephone Company	2,966	742	3,708
Maryland Telephone & Telegraph Company	2,085	336	2,421
Western Union Telegraph Company	377	.....	377
Postal Telegraph Cable Company	130	.....	130
Baltimore & Ohio Railroad Company	124	.....	124
American Telephone & Telegraph Company	65	.....	65
Philadelphia, Balto. & Washington R. R. Co.	44	.....	44
Northern Central Railroad Company	26	.....	26
United Railways & Electric Company	89	.....	89
Owners unknown	739	253	992
Totals	9,876	1,355	11,231
Police and Fire Alarm Telegraph			2,270
			13,501

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices	Expires (Including Guaranties).
491	J. L. Robertson.	Repaving.	Gay street, from Jones' Falls to Exeter street.	Grading, 40c. per cu. yd.; Belgian block paving, including a bed of sand 6 inches thick, and pouring the joints with paving cement, $1.70 per sq. yd.; new flagstones, set, 30c. per sq. ft.; new 10-inch gutterstones, set, 25c. per lin. ft.; new 6-inch kerb, 85c. per lin. ft.; new 6-inch kerb-circles, set, $1.70 per lin. ft.; Belgian block repaving, including all necessary grading or filling, a bed of sand 6 inches thick and pouring joints with paving cement, 79c. per sq. yd.; old 6-inch kerb and circles reset, 12c. per lin. ft.; old 6-in. kerb rejointed, 12c. per joint; old 16-inch gutterstones reset, 6c. per lin. ft.; old 10-inch gutterstones rejointed, 10c. per joint; old flagstones relaid, 10c. per sq. ft.; old flagstones rejointed, 10c. per lin. ft. of edge; cobble repaving in cross streets, 4½c. per sq. ft.; resetting kerb in cross streets, 10c. per lin. ft.....	Aug. 31, 1904.

530	John Trainor.	Repaving.	Over drains	Bills for repaving guaranteed.....	June 6, 1904.
534	John L. Robertson.	Grading, paving, etc.	Eager street, from Chester street to Collington ave.	For grading, 19c. per cu. yd.; for Belgian block paving, including gutterstones, and a bed of sand 12 inches thick, $1.69 per sq. yd.; new flagstones set, 34c. per sq. ft.....	June 6, 1905.
559½	Samuel Posner and W. W. Frederick.	Tunnel.	Clay street.	Special bond of $500 to cover Board of Estimates charges.	
560½	Maryland Biscuit Co.	Drainpipe.	Charles street.	Special bond of $500 to cover Board of Estimates charges.	
615	Maryland Pavement Company.	Paving.	Eutaw Place, from North avenue to Whitelock st.	Asphalt block paving, including grading, 4-inch concrete base, ½-in. mortar bed and asphalt blocks, 3x4x12 inch, $2.35 per sq. yd ; old kerb reset, including redressing where necessary, 20c. per lin. ft.; cobble repaving in cross streets, 27c. per sq. yd.; 4½-inch headers, 60c. per lin. ft.; old flagstone reset, 12½c. per sq. ft.....	Aug. 13, 1908.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
616	Maryland Pavement Company.	Paving.	Bank lane, from Charles to St. Paul streets.	Asphalt block paving, including foundation and pavement complete, $2.00 per sq. yd.; new 6-inch kerb, including circles set in place, straight kerb, $1 00 per lin. ft., and circles $2.00 per lin. ft.; old 6-inch kerb and circles redressed and reset, 20c. per lin ft.; old 6-inch kerb and circles redressed in place, 10c. per lin. ft.; new 10-inch gutters, 50c. per lin. ft.; Belgian block repaving, 3c. per sq. ft.; resetting flagstones, 12½c. per sq. ft.....	Sept. 25, 1906.
617	Maryland Pavement Company.	Paving.	Bank lane, from Calvert to St. Paul streets.	Asphalt block paving, including foundation and pavement complete, $2.00 per sq. yd.; new 6-inch kerb, including circles, set in place, straight kerb, $1.00 per lin. ft., and circles $2.00 per lin. ft.; old 6-inch kerb and circles, redressed and reset, 20c. per lin. ft.; old 6-inch kerb and circles redressed in place, 10c. per lin. ft.; new 10-inch gutters, 50c. per lin ft.; Belgian block repaving, 3c. per sq. ft.; resetting flagstones, 12½c. per sq. ft...	Sept. 11, 1906.

666	The Southern Asphalt Paving Company.	Paving.	Baltimore street, from Grove street to Eastern City Limits.	Sheet asphalt paving, inc. 6-inch concrete base, 1½ inches of binder and 2 inches of wearing surface, $2.17 per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; new 6-inch kerb and circles, set in place, $1.00 per lin. ft.; 4½-inch headers set, 60c. per lin. ft. Will purchase old cobble and gutterstone, ¼c. per sq. ft. Will purchase old kerbstone, 3c. per lin. ft. Extra grading, not inc. in paving, 39c. per cu. yd. Vitrified brick gutters, $2.30 per sq. yd.....	Sept. 18, 1907, and Mar. 19, 1908.
668	The Southern Asphalt Paving Company.	Repairing and resurfacing sheet asphalt streets and bridge roadways.	....	Area less than 100 sq. yds., and guaranteed for one year; concrete base, 6 inches thick, 50c. sq. yd.; binder, 1½ inches thick, 65c. sq. yd.; wearing surface, 1½ inches thick, $1.50 sq. yd.; wearing surface, 2 inches thick, $1.60 sq. yd.; area 100 sq. yds. or more, and guaranteed for 5 years; concrete base, 6 inches thick, 50c. sq. yd.; binder, 1½ inches thick, 65c. sq. yd.; wearing surface, 1½ inches thick, $1.60 sq. yd.; wearing surface, 2 inches thick, $1.70 sq. yd.	(See plats for dates of guaranties expiration.)

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
669	Filbert Paving and Construction Co.	Paving.	St. Paul street, from 25th to 30th streets.	Sheet asphalt paving, inc. grading, 6-inch concrete base, 1½ inches of binder and 2 inches of wearing surface, $2.18 sq. yd.; vitrified brick paving, inc. grading, 6-inch concrete base and sand cushion (wire-cut brick), $2.19 sq. yd.; new 6-inch kerb and circles, set in place, $1.13 lin. ft.; old kerb and circles, redressed and reset, 17c. lin. ft.; old kerb and circles, redressed in place, 17c. lin. ft.; old kerb in cross streets, reset and rejointed, 15c. lin. ft.; 4½ inch headers, set, 60c. lin. ft.; new cobble paving in cross streets, 7c. sq. ft.; cobble repaving in cross streets, 5c. sq. ft.; will purchase old cobble and gutter-stone for 8c. sq. yd.; will purchase old kerbstone for 10c. lin. ft.; will purchase old flagstone for 5c. sq. ft.	Dec. 30, 1906.
674	Schneider & Co.	Paving.	Chesapeake st., from Fairmount ave. to Fayette street.	Vitrified brick paving, inc. grading (fill) 8-inch sand and gravel base, $1.45 sq. yd. New 5-inch kerb and circles, set in place, 70c. lin. ft. Extra grading, not. inc. in paving, 18c. sq yd.	Aug. 23, 1907.

676	John L. Robertson.	Paving footways.	St. Paul street bridge.	10¼c. per sq. ft. cement pavement, inc. removal old material and cleaning up.....	Sept. 26, 1906.
678	Central Real Estate and Trust Co., and Jno S. Moke.	Paving.	St. Paul st., from 30th to 31st st.	Private contract; work guaranteed...	Nov. 12, 1906.
680	The Maryland Pavement Company.	Paving.	Bayard street from Columbia avenue to Herkimer street.	Asphalt blocks, laying and grouting same, 4-inch concrete and ½-inch mortar bed, $2.30; grading, 20c.; total, $2.50 sq. yd. Belgian block repaving in cross streets, 30c. sq.yd. New 5-inch kerb and circles, set in place, 75c. lin. ft. Old kerb and circles redressed and reset, 20c. lin. ft. Old kerb and circles redressed in place, 10c. lin. ft. Four and one-half inch headers, set, 65c. lin. ft. Old flagstone, reset, 15c. sq. ft. Extra grading, not included in paving, 25c. cu. yd.....	July 26, 1907.
681	The United Railways and Electric Company.	Paving.	Twenty-fifth st. from Maryland ave. to Charles street.	Private contract; work guaranteed ..	Oct 26, 1906.
682	Daniel Sullivan.	Paving.	Collins ave., 617 feet south from Frederick ave. and Augusta ave. from Frederick avenue to Walrad street.	Macadam pavement, 6 inches thick, including 550 cu. yds. grading, 74c. sq. yd.; if rotten rock used instead of gabbro screenings, 64c. sq. yd. Vitrified brick gutters, with cobble rebuts, 87c. sq. yd. Flagstone crossings, 33c. sq. ft ; extra grading, not included in paving, 30c. sq. yd.....	Aug. 18, 1904.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties.)
683	Filbert Paving and Construction Co	Paving.	Maryland avenue, from 25th to 29th streets.	Belgian block paving, including 2,750 cu. yds. of grading, and 10-inch gutterstone, $1.90 sq. yard. Belgian block repaving in cross streets, 97c. sq. yd. New 4½-inch kerb and circles, 72c. lin. ft. Old kerb and circles redressed and reset, 22c. lin. ft. Old kerb and circles redressed in place, 10c. lin. ft. New flagstones, set, 37c. sq. ft. Will purchase old cobble and gutterstone, ¼ of 1c. sq. ft. Will purchase old kerbstone, 4c. lin. ft. Extra grading, not included in paving, 20c. cu. yd.	June 12, 1907.
686	Maryland and Pennsylvania R. R. Co.	Bridge.	Remington ave.	Maintenance by R. R. Co.	Perpetual.
687	F. D. Pullen & Co.	Post on footway.	West side Eutaw st., 12 feet north of Wayne st.	Special bond of indemnity	25 years from Oct. 28, 1901, or on removal of post.

697	Filbert Paving and Construction Co.	Repairing and resurfacing sheet asphalt streets and bridge roadways.	....	Area less than 100 sq. yds., guarantee 1 year; concrete base, 6 inches thick, 50c. sq. yd.; binder, 1½ inches thick, 63c. sq yd.; wearing surface, 1½ inches thick, $1.55 sq. yd.; wearing surface, 2 inches thick, $1.63 sq. yd. Area more than 100 sq. yds., guarantee 5 years, concrete base, 6 inches thick, 50c. sq. yd.; binder, 1½ inches thick, 63c. sq. yd.; wearing surface, 1½ inches thick, $1.63 sq. yd ; wearing surface, 2 inches thick, $1.71 sq. yd.	(See plats for dates of guaranties expiration.)
726	Filbert Paving and Construction Co.	Paving.	Hanover st., from Fort avenue to Winder st.	Belgian block paving, including 9-inch base and 10-inch gutterstone, $2.08 per sq. yd.; cobblestone repaving in cross streets, 30c. per sq yd.; new 5 inch kerb and circles, set, 99c. per lin. ft.; old kerb and circles redressed and reset, 18c. per lin. ft.; old kerb and circles redressed in place, 22c. per lin. ft.; new flagstones set, 34c. per sq. ft. Will purchase old cobble and gutterstone at ¼c. per sq. ft., old kerbstone at 5c. per lin. ft , and old flagstones at 2c. per sq. ft. Old flagstones redressed and reset, 7c. per sq. ft	Sept. 29, 1907.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
728	The Maryland Pavement Co.	Paving.	Ashland avenue, from Patterson Park avenue to Chester st.	Asphalt blocks, inc. grading, 4-inch concrete and ½-in. mortar base, $2.35 per sq. yd.; cobble paving in cross streets, 27c. per sq yd.; cobble repaving in cross streets, 27c. per sq. yd.; new 5-in. kerb and circles, set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 25c. per lin. ft.; old kerb and circles redressed in place, 15c. per lin. ft.; 4½-inch headers, set, 75c. per lin. ft.; extra grading, not included in paving, 25c. per cu. yd.....	Sept. 9, 1908.
729	John L. Robertson.	Paving.	Warren ave., for 1,380 feet east of Light st.	Asphalt block paving, inc. grading, 4-inch concrete base, $2.27 per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; new 5-inch kerb and circles, set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 4½-inch, 28c. per lin. ft.; old kerb and circles redressed in place, 18c. per lin. ft.; 4½-inch headers, set, 75c. per lin. ft. Will purchase old gutter and cobblestone at 1c. per sq. ft.....	July 25, 1908.

730	John L. Robertson.	Paving.	North ave., from Broadway to Greenmount ave.	Asphalt block paving, inc. grading, 6 inch concrete base, $2.42 per sq. yd.; cobble paving in cross streets, 63c. per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; new 5 inch kerb and circles, set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 28c. per lin. ft.; old kerb and circles redressed in place, 18c. per lin. ft.; new 4½-inch headers, set, 75c. per lin. ft.; old kerb reset for headers, 15c. per lin. ft. Will purchase old kerbstone at 15c. per lin. ft., old flagstone at 10c. per sq. ft., and old cobble and gutterstone at 1c. per sq. ft.....	April 22, 1908.
731	John L. Robertson.	Paving.	McCulloh street, from Lanvale street to Lafayette avenue.	Asphalt block paving, inc. grading, 4-inch concrete base, $2.25 per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; new 5-inch kerb and circles set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 28c. per lin. ft.; old kerb and circles redressed in place, 18c. per. lin. ft. Will purchase old cobble and gutterstone at 1c. per sq. ft., old kerbstone at 15c. per lin. ft., and old flagstone at 10c. per sq. ft	April 29, 1908.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
732	John L. Robertson.	Paving.	North avenue, for 150 feet west of Penna. avenue.	Asphalt block paving, inc. grading, 6-inch concrete, $2.39 per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; new 5-inch kerb and circles set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 28c. per lin. ft.; old kerb and circles redressed in place, 18c. per lin. ft.; 4½-inch headers, furnished and set, 75c. per lin. ft.; 10-inch standard gutterstone, 50c. per lin. ft. Will purchase old cobble and gutterstone for 1c. per sq. ft., old kerbstone for 15c. per lin. ft., and old flagstone for 10c. per sq. ft.....	May 9, 1908.
733	John L. Robertson.	Paving.	Fulton avenue, from Pennsylvania avenue to Druid Hill avenue.	Asphalt block paving, inc. grading, 6-inch concrete, $2.39 per sq. yd.; cobble repaving in cross streets, 36c. per sq. yd.; Belgian block repaving in cross streets, 50c. per sq yd.; new 5-inch kerb and circles set, $1.00 per lin. ft.; old kerb and circles redressed and reset, 28c. per lin. ft.; old kerb reset for headers, 15c. per lin. ft. Will purchase old cobble and gutterstone for 1c. per sq. ft., old kerbstone for 15c. per lin. ft., and old flagstone for 10c. per sq. ft	June 22, 1908.

734	Patrick Keelty.	Grading.	Calvert st., from 25th street to Gilmor lane, and 29th st., from St. Paul st. to Maryland ave.	Excavation, 29c. per cu. yd.; borrow, 14c. per cu. yd.	
736	Henry Smith & Sons	Temporary tracks.	Gay st., from Pratt st. to Water st.	Special indemnity bond of $50,000.....	Upon removal of tracks.
737	Chas. A. Briscoe.	Setting kerb.	1001 to 1029 Claret street.	Under private contract; work guaranteed	May 17, 1904.
739	The Southern Asphalt Paving Company.	Paving.	St. Paul st., from North ave. to 25th street.	Sheet asphalt paving, inc. grading, 6-inch sand and 6-inch cobblestone base, 1½-inch binder, and 2-inch wearing surface, $2.08 per sq. yd.; vitrified brick paving, inc. grading, 6-inch sand and 6-inch cobblestone, $2.09 per sq. yd.; Belgian block paving, $2.60 per sq. yd.; Belgian block repaving, 70c. per sq. yd.; vitrified brick gutters in cross streets, $2.60 per sq. yd.; cobblestone repaving in cross streets, 40c. per sq. yd.; new 5-inch kerb and circles set in place, 90c. per lin. ft.; old kerb reset, 20c. per lin. ft.; old kerb and circles redressed and reset, 30c. per lin. ft.; old kerb and circles redressed in place, 15c. per lin. ft.; 4½-inch headers furnished and set, 60c. per lin. ft.; old kerb reset for headers, 30c. per lin. ft	Nov. 19, 1907.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties.)
740	The Southern Asphalt Paving Co.	Paving.	Baltimore street, from Chesapeake to Grove streets.	Sheet asphalt paving, inc. 6-inch concrete base, 1½-inch binder, 2-in. wearing surface, $2.25 per sq. yd.; new 6-inch kerb and circles set, $1.10 per lin. ft.; old kerb and circles redressed and reset, 35c. per lin. ft.; 4½-inch headers set, 65c. per lin. ft.; vitrified brick gutters, $2.60 per sq. yd	Sept. 11, 1907.
743	Carolina Palm.	Setting kerb.	3115-3117 West North ave.	Under private contract; work guaranteed	June 12, 1904.
745	Jos. J. Miller.	Setting kerb.	W. North ave.	Under private contract; work guaranteed	June 30, 1904.
747	U. S. Wood Preserving Co.	Paving.	Calvert st., from German to Baltimore sts.	Wooden block paving, 6 inch concrete base, $3.50 per sq. yd.; Belgian block repaving in cross streets, 25c. per sq. yd.; old kerb and circles redressed and reset, 50c. per lin. ft.; old kerb and circles redressed in place, 30c. per lin. ft.; reset Belgian blocks on 6-inch concrete for headers, $1.50 per sq. yd. Will purchase Belgian blocks and gutterstone at 2c. per sq. ft., and old flagstone at 1½c. per sq ft.	April 23, 1908.

749	Edw. Brady & Son.	Repaving.	Hargrove alley, south of Madison street.	Under private contract; work guaranteed	July 23, 1904.
750	Dan'l Sullivan.	Setting kerb and gutter.	Barclay st. and Waverly ave.	Under private contract; work guaranteed	July 30, 1904.
751	Dan'l Sullivan.	Paving.	Brunt st., from Bloom to Baker street.	Cobblestone, inc. gutters, $1.09 per sq. yd.; cobblestone paving in cross streets, $1.00 per sq. yd.; cobblestone repaving, 49c. per sq. yd.; new 5-inch kerb and circles, set, 90c. per lin. ft.; new 4½-inch kerb and circles, set, 80c. per lin. ft. for straight and $1.50 per lin. ft. for circular; old kerb and circles, redressed and reset, 15c. per lin. ft.; old kerb and circles reset, 15c. per lin. ft.; new flagstones, set, 30c per sq. ft. Extra grading not included in paving, 30c. per cu yd	June 16, 1905.
752	Wm. M. Elder.	Paving.	Montford avenue, from Townsend st. to Gay.	Cobble paving, inc. grading, 94c. per sq. yd ; cobble repaving in cross streets, 36c. per sq.yd.; new 4½-inch kerb and circles, set, 65c. per lin. ft. for straight and $1 30 per lin. ft. for circular; old kerb and circles redressed and reset, 29c. per lin. ft.; new flagstones, set, 32c. per sq. ft. Extra grading, not. inc. in paving, 30c. per cu. yd. Will purchase old cobble and gutterstone for 1c. per sq. ft., and old kerbstone for 10c. per lin. ft	May 23, 1905.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
754	Ferguson & McCullough.	Paving.	Rose street, from Fairmount ave. to Fayette st.	New cobble paving, inc. grading and guttering, $1.02 per sq. yd.; cobble repaving, 27c. per sq. yd.; new 4½-inch kerb, set, 69c. per lin. ft.; 4½-inch kerb, reset and redressed, 35c. per lin. ft.; 4½-inch kerb, reset, 10c. per lin. ft; new flagstones, set, 33c. per sq. ft.; flagstones, reset, 5c. per sq ft.....	June 3, 1905.
755	Wm. M. Elder.	Paving.	Carey street, from Columbia avenue to Ward st.	New cobble paving, inc. grading, 88c. per sq. yd.; cobble repaving, 36c. per sq. yd.; 4½-inch new kerb (gneiss), set, 65c. per lin. ft.; circles $1.30 per lin. ft.; 4½-inch kerb, reset and redressed, 30c. per lin. ft.; 4½-inch kerb, redressed in place, 25c. per lin. ft.; Belgian block repaving, 12c. per sq. yd; vitrified brick repaving, 12c. per sq. ft.; new flagstones, set, 32c. per sq. ft; flagstones, reset, 4c. per sq. ft	June 17, 1905
756	Leopold Pfefferkorn.	Post on footway.	412 S. Eutaw st.	Special bond of indemnity.....	25 years from Sept. 18,'02, or on removal of post.

757	Filbert Paving and Construction Co.	Paving.	Henry street, from Warren avenue to Hamburg street.	Belgian block paving, inc. grading, $2.30 per sq. yd.; cobble repaving in cross streets, 35c. per sq. yd., new 4½-inch kerb set, 75c per lin. ft.; old kerb and circles redressed and reset, 30c. per lin. ft.; old kerb and circles redressed in place, 20c. per lin. ft.; new flagstones set, 35c. per sq. ft.; flagstones reset, 9c. per sq. foot	Five years after acceptance.
758	E. Glen Perine.	Setting kerb and footway.	Stable alley.	Under private contract; work guaranteed	Nov. 5, 1904.
760	Lloyd L. Jackson Company.	Setting kerb and footway.	Gillingham alley.	Under private contract; work guaranteed	Nov. 18, 1904.
761	Edw. J. Gallagher.	Setting kerb.	S. S. Fayette st., between Baxter street and Kenwood avenue.	Under private contract; work guaranteed	Nov. 6, 1904.
762	The Consolidated Gas Company.	Repaving.	General work.	Work to be done by City Engineer and bills rendered monthly	Mar. 1, 1904.
763	E. P. Callow.	Setting kerb and gutter.	160 feet on N. S. Whitelock st., bet. Linden av. and Bolton ave.	Under private contract; work guaranteed	Dec. 4, 1904.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
764	Daniel Sullivan.	Paving.	Northwest street, from Fulton av to Payson st.	Vitrified brick paving, inc. grading, $1.97 per sq. yd.; cobblestone paving in cross streets, 80c. per sq. yd.; vitrified brick repaving in cross streets, 50c. per sq. yd ; new 4½-inch kerb and circles set, 65c. per lin. ft.; old kerb and circles redressed and reset, 18c. per lin. ft.; old kerb and circles redressed in place, 10c. per lin. ft.; 4½-inch headers set, 45c. per lin. ft.; extra grading, not inc. in paving, 33c. per cu. yd ; cobblestone repaving in cross streets, 40c. per sq. ft.. Will purchase old cobble and gutterstone for 2c. per sq. ft. and old kerbstone for 10c. per lin. ft.	Five years after acceptance.
766	M. Luther Wright	Setting kerb.	N. W. cor. Dark lane and Calvert st.	Private contract; work guaranteed	Jan. 14, 1905.

767	Filbert Paving and Construction Co.	Paving.	Hoffman st. from Broadway to Bond st.	Vitrified brick paving, inc. grading, 4-inch concrete base, $2.18 per sq. yd.; cobble paving in cross streets, 35c. per sq. yd.; new 4½-inch kerb and circles set in place, 75c. per lin. ft.; old kerb reset, 15c. per lin. ft.; old kerb and circles reset, 15c. per lin. ft.; extra grading not inc. in paving, 35c. per cu. yd	Oct. 14, 1908.
768	Pat'k Keelty.	Sand.	General purposes	Screened sand in Districts 1 and 5, $1 per cu. yd.; screened sand in District 2, 90c. per cu. yd.; paving sand in Districts 1 and 2, 83c. per cu. yd; paving sand in District 5, 95c. per cu. yd.	Dec. 31, 1903.
769	P. M. Womble.	Lumber.	General purposes.	Georgia pine, Savannah mcht. quality, all sizes, $23.80 per M ft.; white pine shelving (50 per cent. of all used) 1x12 in. from 12 to 16 ft., $35 per M ft.; white pine selects, 2x12 in. from 12 to 16 ft., $75 per M ft...	Dec. 31, 1903.
770	Anna Diller.	Sand.	General purposes.	Paving sand in District 3, 70c. per cu. yd..	Dec. 31, 1903.
771	Chas. A. Hook, Jr.	Broken stone	General purposes.	Gabbro or nigger-head Nos. 1, 2 and 3, and gabbro or nigger-head screenings, in District 1 and 3, $1.90 per cu. yd.; gabbro or nigger-head Nos. 1, 2 and 3, and gabbro or nigger-head screenings, in District 2, $2.20 per cu. yd.; gabbro or nigger-head Nos. 1, 2 and 3, and gabbro or nigger-head screenings f. o. b. Baltimore, $1.75 per cu. yd	Dec. 31, 1903.

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
772	John Bullock & Son.	Cement.	General purposes.	Domestic Portland, "Nazareth" brand, $2 28 per bbl. and 60c per bag, with rebate of 10c. for each bbl. and bag returned.....	Dec. 31, 1903.
773	John Bullock & Son.	Cement.	General purposes.	Domestic Portland, "Alpha" brand, $2.23 per bbl. and 59½c. per bag, with rebate of 10c for each bbl. and bag returned.....	Dec. 31, 1903.
774	D. A. Leonard.	Broken stone.	General purposes	Gabbro or nigger-head Nos. 1 and 2 in Dist. 4, $2.40 per cu. yd.; gabbro or nigger-head No. 3 in Dist 4, $2.45 per cu. yd.; gabbro or nigger-head screenings in Dist. 4, $2.45 per cu. yd.....	Dec. 31, 1903
775	M. F. Leonard.	Sand.	General purposes	Paving sand in Dist. 4, 84c. per cu. yd ; screened sand in Dists. 3 and 4, 85c. per cu. yd.....	Dec. 31, 1903.
776	Patrick Keelty.	Paving.	Fayette street, from Luzerne to Patapsco sts.	Cobblestone paving, inc. grading and gutterstone, 95c. per sq. yd.; cobblestone repaving in cross streets, 45c. per sq. yd.; new 4½-inch kerb and circles set in place,	

				75c. per lin. ft.; new flagstones set, inc. blocks, 35c. per sq. ft.; old flagstones reset, 5c. per sq. ft.; 4½-inch kerb reset and redressed, 25c. per lin. ft.....	Nov. 20, 1905.
777	The Schwind Quarry Company.	Gutterstone.	General purposes	Standard 10-inch, 30c. per lin. ft.....	Dec. 31, 1903.
778	J. H. Atkinson.	Sewer building stone.	General purposes	In Dist. 3, $2.00 per cu. yd. in place..	Dec. 31, 1903.
779	J. H. Atkinson.	Kerbstone and circles.	General purposes	Kerbstone, 4½-inch, 60c. per lin. ft.; kerb circles, 4½-inch, $1.20 per lin. ft.; kerbstone, 5-inch, 65c. per lin. ft.; kerb circles, 5-inch, $1.30 per lin. ft	Dec. 31, 1903.
780	J. H. Atkinson.	Cobble or rubble and broken stone	General purposes	Cobble or rubblestone in Dist. 3, $1.80 per cu. yd.; broken stone, gneiss Nos. 1 and 2, in Dist. 2, $1.50 per cu. yd.; gneiss No. 3, in Dist. 2, $1.75 per cu. yd.....	Dec. 31, 1903.
781	Filbert Paving and Construction Co.	Repairing and resurfacing sheet asphalt streets and bridge roadways.	.....	Area less than 100 sq. yds., guaranteed one year, concrete base 6 inches thick, 50c. per sq. yd; binder 1½ inches thick, 67c. per sq. yd.; wearing surface 1½ inches thick, $1.61 per sq. yd.; wearing surface 2 inches thick, $1.69 per sq. yd. Area more than 100 sq. yds., guaranteed five years, concrete base 6 inches thick, 50c. per sq yd.; binder 1½ inches thick, 67c. per sq. yd.; wearing surface 1½ inches thick, $1.69 per sq. yd.; wearing surface 2 inches thick, $1.77 per sq. yd.	

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
782	The I. H. Peddicord & Sons' Quarry and Transfer Co.	Sewer building stone.	General purposes.	In Dist. 2, $2.10 per cu yd. in place.	Dec. 31, 1903.
783	The I. H. Peddicord & Sons' Quarry and Transfer Co.	Cobble or rubble and broken stone	General purposes.	Cobble or rubblestone in Dist. 2, $1.86 per cu. yd.; broken stone, gneiss Nos. 1 and 2, in Dist. 4, $2,00 per cu. yd.; gneiss No. 3, in Dist. 4, $2.25 per cu. yd.; gneiss dust, in Dist. 2, 85c. per cu. yd., and in Dist. 4, $1.25 per cu. yd.....	Dec. 31, 1903.
784	The I. H. Peddicord & Sons' Quarry and Transfer Co.	Gutter and flagstone.	General purposes.	Gutterstone, 10-inch, hammer-dressed, 25c. per lin. ft.; flagstoue, inc. three rows of blocks, for whole city, 30c. per sq ft.....	Dec. 31, 1903.
785	The Schwind Quarry Company.	Sewer building stone.	General purposes.	In. Dist. 1, $2.00 per cu. yd.; Dist. 4, $2.25 per cu. yd.; Dist. 5, $2 50 per cu. yd	Dec. 31, 1903.

786	The Schwind Quarry Company.	Cobble or rubblestone; broken stone and mosaic blocks.	General purposes.	Cobble or rubblestone, Dist. 1, $1.85 per cu. yd.; Dists. 4 and 5, $2.00 per cu. yd.; broken stone, gneiss Nos. 1 and 2. in Dist. 1, $1.55 per cu. yd., Dist. 3, $1.75 per cu. yd.; gneiss No. 3, Dist. 1, $1.80 per cu. yd., Dist. 3, $1.75 per cu. yd.; gneiss screenings, Dists. 1 and 2, $1.25 per cu. yd., Dist. 3, $1.00 per cu. yd., and Dist. 4, $1.50 per cu. yd.; stone dust, Dists. 1 and 3, $1.00 per cu. yd.; mosaic paving blocks, Dists. 1, 2, 3, 4 and 5, 85c. per sq. yd.	Dec. 31, 1903.
787	George M. Hay.	Vitrified sewer pipe.	General purposes.	Standard, 12 to 24 inches, R. R. delivery, 75 per cent. off list; 30 inches, R. R. delivery, 64 per cent. off list; general and city yard delivery, 12 to 24, inches, 74 9-10 per cent. off list; general and city yard delivery, 30 inches, 63 9-10 per cent. off list; double strength, R. R. delivery, 15 inches, 70 per cent. off list; 18 inches, 66 per cent. off list; 20 inches, 66 per cent. off list; 24 inches, 66 per cent. off list; 30 inches, 58 per cent. off list; general and city yard delivery, 15 inches, 68 per cent. off list; 18 inches, 64 per cent. off list; 20 inches, 64 per cent. off list; 24 inches, 64½ per cent. off list; 30 inches, 56 per cent. off list.	Dec. 31, 1903

CONTRACTS IN FORCE IN THE CITY ENGINEER'S DEPARTMENT DECEMBER 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
788	Thos. Matthews & Son.	Lumber.	General purposes.	White pine shelving (50 per cent. of all used), 1x12 in. from 12 to 16 feet, $35.00 per M ft.; white oak, selects, all sizes, $35.00 per M ft	Dec. 31, 1903.
789	W. D. Gill & Son.	Lumber.	General purposes.	Virginia pine, mcht. quality, all sizes, $15.00 per M ft.; Virginia pine, stock culls, 1x12 and 2 by 12 inches, from 12 to 16 feet, $17.25 per M ft.; North Carolina pine, mcht. quality, all sizes, $15.00 per M ft.; North Carolina pine, stock culls, 1x12 and 2x12 inches, from 10 to 12 feet, $17.25 per M ft.; white oak, firsts and seconds, all sizes, $55.00 per M ft	Dec. 31, 1903.
790	W. W. Clarke & Son.	Vitrified paving blocks.	General purposes.	"Metropolitan" blocks, car load lots, f. o. b. Balto., $25.00 per M; car load lots, delivered at City Yard, $27.50 per M	Dec. 31, 1903.
791	P. Flanigan & Co.	Granite paving blocks	General purposes.	Car load lots, f. o. b. Balto., B. & O. delivery, $44.00 per M; city delivery, $48.50 per M	Dec. 31, 1903.

792	Welch, Gloninger & Maxwell.	Vitrified sewer brick.	General purposes.	Car load lots, f. o. b. Balto., $17.00 per M; delivered on work, $19.00 per M; delivered at Belair lot, $18.50 per M	Dec. 31, 1903.
793	Pat'k Reddington.	Paving.	Stockholm st., from Carroll st. to Wicomico st	New cobble paving, inc. earthwork, 87c. per sq. yd.; cobble repaving, 36c. per sq. yd ; new 4½-inch kerb set, 74c. per lin. ft.; 4½-inch kerb reset and redressed, 25c. per lin. ft.; extra grading not inc. in paving, 35c. per cu. yd.	Two years after acceptance.
794	Balto. Bolt & Iron Works.	Hand rail.	Mt. Vernon ave. Viaduct.	Wire panel hand-rail, $1.15½ per lin. ft.	
795	Maryland Pavement Company.	Asphalt blocks.	General purposes.	Size 3x4x12 inches, 5¼c.; size 4x4x12 inches, 6c.; size 4x5x12 inches, 6½c.; size 3x5x12 inches, 6c	Dec. 31, 1903.
796	Filbert Paving & Construc'n Co.	Setting kerb.	S. W. Cor. North ave. and 10th st.	Private contract; work guaranteed	April 13, 1905.
797	Owen Patterson.	Filling.	East approach to Merryman's lane bridge.	40c. per cu. yd.	Completion of work.
798	The Balto. Brick Co	Brick.	General purposes	No. 1 hand-made paving, $13 per M; No. 2 paving or arch paving, $10 per M; Martin machine-made sewer, $8.25 per M; Chambers machine-made sewer, $7.20 per M	Dec. 31, 1903.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties).
799	Theodore Hooper.	Setting kerb.	S. S. Roland av., east of Third av.	Private contract; work guaranteed....	May 7, 1905.
800	P. Flanigan & Co.	Granite paving blocks.	General purposes	City delivery, $52 per M; f. o. b., B. and O. cars, Balto., $45.50 per M..	Dec. 31, 1903.
801	The U. S. Wood Preserving Co.	Wooden paving blocks and planks.	General purposes.	Treated plank, long-leaf yellow pine, $48 per M, B M.; treated paving blocks, 4x4x8 inches, $50 per M; 3x4x8 inches $40 per M; 2½x3x6 inches, $19 per M.....	Dec. 31, 1903.
802	Edw. J. Gallagher.	Setting kerb.	N. S. Fairmount ave., bet. Kenwood ave. and Grove st.	Private contract; work guaranteed....	June 9, 1905.
803	George M. Hay.	Vitrified sewer pipe.	General purposes.	Standard pipe, 12-inch, general delivery, 68 per cent. off list; 12-inch, R. R. delivery, 70 per cent. off list; 12-inch, City Yard delivery, 68 per cent. off list; 2 per cent. discount for cash in 15 days from net bill.....	Dec. 31, 1903.
804	C. E. Spalding.	Setting kerb.	Walbrook av., W. of Fulton av.	Private contract, work guaranteed....	July 27, 1905

805	C. E. Spalding.	Paving.	Walbrook av, from Fulton av. to Monroe st.	Private contract; work guaranteed....	Sept. 17, 1905.
806	Patk. F. Reddington.	Paving.	Chase st., from Patterson Park ave. to Milton av.	New cobble paving, inc. earthwork, $1.05 per sq. yd.; cobble repaving, 54c. per sq. yd.; new 4½-inch kerb and circles 75c. per lin. ft. set; 4½-inch kerb, reset and redressed, 30c. per lin. ft.; 4½-inch kerb, redressed in place, 25c. per lin. ft.; vitrified brick repaving, 60c. per sq. yd.; extra grading, not inc. paving, 30c. per cu. yd.; new flagstones, set, 45c. per sq. ft.; flagstones, reset, 10c. per sq. ft.; cobble repaving, in cross strects, 36c. per sq. yd.....	Two years after acceptance.
807	Chas. A. Hook, Jr.	Paving.	Eighth st., from North ave. to Walbrook ave.	Macadam pavement, 6 inches thick, including grading, 49c. per sq. yd.; vitrified brick gutters with cobble rebuts, 85c. per sq. yd.; flagstone crossings, 42c. per sq. yd.; extra grading not included in paving, 39c. per sq. yd.....	Two years after acceptance.
808	Chas. A. Hook, Jr.	Paving.	Tenth st., from Windsor Mill road to Chesapeake ave.	Macadam pavement, 6 inches thick, including grading, 45c. per sq. yd.; vitrified brick gutters with cobble rebuts, 85c per sq yd.; vitrified brick gutters with cobble rebuts repaved, 60c. per sq. yd.; new flagstone crossings, 42c. per sq. yd.; old flagstones reset, 12c. per sq. ft.; extra grading not included in paving, 30c. per cu. yd.....	Two years after acceptance.

No.	Contractor.	To Furnish.	For.	Prices.	Expires (Including Guaranties)
809	Chas. A. Hook, Jr.	Paving.	Twelfth st., for 175 ft. n. from n. e. side of Windsor Mill road.	Macadam pavement, 6 inches thick, including grading, 46c. per sq. yd.; vitrified brick gutters with cobble rebuts, 85c. per sq. yd.; flagstone crossings, 42c. per sq ft.; extra grading not included in paving, 40c. per cu. yd.....	Two years after acceptance.
810	Chas. A. Hook, Jr.	Paving.	Clifton ave., from Tenth st. to Chelsea Terrace.	Macadam pavement, 6 inches thick, inc. grading, 49c. per sq. yd.; vitrified brick gutters with cobble rebuts, 85c. per sq. yd ; vitrified brick gutters, with cobble rebuts, repaved, 60c. per sq. yd ; flagstone crossings, 42c. per sq. ft.; old flagstones reset, 12c. per sq. ft.; extra grading not inc. in paving, 34c. per cu. yd.....	Two years after acceptance.
811	Geo. W. Walther & Co.	Repaving.	Over drains.	Bills for repaving guaranteed.....	Aug. 24, 1904.
812	John A. Graham.	Repaving.	Over drains.	Bills for repaving guaranteed.....	Aug. 18, 1904.

813	W. H. Rothrock & Co.	Repaving.	Over drains.	Bills for repaving guaranteed.....	June 25, 1904.
814	D. N. Sullivan.	Repaving.	Over drains.	Bills for repaving guaranteed	Mar. 22, 1904.
815	H. C. Bowman.	Repaving.	Over drains.	Bills for repaving guaranteed.....	Dec. 11, 1904.
816	P. Flanigan & Co.	Repaving.	Over drains.	Bills for repaving guaranteed.....	Dec. 11, 1904.

REPORT OF

O. W. CONNET, Asst. City Engineer.

1903.

City Engineer's Office,
Baltimore, Md., December 31, 1903.

Mr. B. T. Fendall,
City Engineer.

Dear Sir:—I respectfully submit the following report of the work done under my direction during the year ending December 31, 1903.

This includes paving done by the city and paid for by assessment on the abutting property, new improved pavements paid for out of the annual levy, paving work done by the city and paid for by deposits, supervision over guaranteed street pavements, reconstruction of bridges and culverts, painting and repairs of bridges and culverts, supervision of Light street and Block street drawbridges, footway pavements, grade establishments, cement testing, surveys and estimates for paving, etc., assessments for street paving, footway paving and repairs, surveys, etc.

STREETS PAVED BY ASSESSMENT.

During the year 1903 four new streets were paved with improved pavement, at the expense of the property owners, and another, which was begun in 1902, was completed.

The areas of the different kinds of IMPROVED PAVEMENTS are as follows: Sheet asphalt, 1,373 sq. yds.; asphalt blocks, 9,616 sq. yds.; treated wooden blocks, 925 sq. yds.; vitrified bricks, 783 sq. yds.; total area, 12,697 sq. yds. The total cost of the same was $30,236.51. The above amounts do not include pavements laid by private individuals or done by the city on deposits made by private individuals, nor does it include any work done in 1902.

There were also five streets paved with COBBLESTONE at the expense of the abutting property owners. The total area of NEW COBBLESTONE pavements laid in this way in 1903 was 5,991 sq. yds., and the total cost of the same is $9,575.34.

Ordinances have been passed and assessments made up to pave four streets in Walbrook with MACADAM at the expense of the property owners. The estimated cost of this work is $12,500.

Ordinances have also been passed and assessments made up to pave two streets with COBBLESTONE at the expense of the property owners at an estimated cost of $12,300, and one street with ASPHALT BLOCKS at an estimated cost of $8,700, another with BELGIAN BLOCKS at an estimated cost of $1,200, and another with VITRIFIED BRICK at an estimated cost of $10,300. This makes a total of $45,000 for streets to be paved in 1904 at the expense of the owners of abutting property, and for which contracts have been let. Beside this there are three ordinances which have been passed, but for which no contracts have been let as yet, and others are before the City Council.

The following is a detailed statement of the amount of work and cost of each street completed and the stage to which others have advanced:

NEW IMPROVED PAVEMENTS.

EAST BALTIMORE STREET, from Grove street to the eastern city limits, was paved with SHEET ASPHALT, and paid for by assessment on the property owners under authority of Ordinance No. 91, approved December 21, 1900. The work was done by the Southern Asphalt Paving Company under their contract (No. 666), dated March 15, 1901. Work was begun in March, 1902, and completed on September 18, 1902, except from the west side of Hare street to the east side of Canton street. This latter portion was not done in 1902 on account of a sewer being constructed by the city. It was begun on

February 9, and completed on March 19, 1903. The two portions of the street are guaranteed for five years from date of completion of each. The six-inch concrete foundation is composed of one part "Atlas" Portland cement, four parts sand and seven parts broken stone. The pavement has a one-and-a-half-inch binder coat and a two-inch wearing surface of Bermudez sheet asphalt. The total length of the pavement is 1,298 feet and the width between kerbs is 42 feet. Of this 232 lineal feet was laid in 1903 and the rest in 1902, see page 54 of the report of last year. The owners of the property in the bed of the following private streets desired to have the streets opened and paved back to the building line at the time the street was paved and signed an agreement to pay for the same, viz: Potomac street on north side, Curley street on south side and Hare street on the north side of Baltimore street. The public street intersections were paid for by the city.

The total amount and cost of the work is as shown below:

Final Estimate

Grading	6,699.0	cu. yds.	at	$0.39...	$ 2,612 61
Sheet asphalt paving	6,100.2	sq. yds.	at	2.17...	13,237 43
Vitrified brick paving	430.76	sq. yds.	at	2 30...	990 74
New 6-in granite kerb	2,253 4	lin. ft.	at	1.00...	2,253 40
New 4½-in. headers set	315 2	lin. ft	at	.60...	189 12
Cobble repaving	116.8	sq yds.	at	.36...	42 04
Kerb redressed in place	17.0	lin. ft.	at	20...	3 40
Total cost of grading, paving and kerbing					$19,328 74
Advertising, inspection, etc					513 34
Total cost of East Baltimore street					$19,842 08

Of this amount, $15,904.77 was collected by assessment on the property, $285.76 was paid by owners for paving private street intersections—making total of $16,190.53 to property owners.

$ 432.72 was charged in 1902 to "Paving in Front of City Property Special."
579 02 was charged in 1902 to "Paving in Front of City Property."
1,501 09 was charged in 1902 to "Cross Streets."
323 58 was charged in 1903 to "Cross Streets, Special."
815 14 was charged in 1903 to "Cross Streets," making

$3,651.55 the total cost to the city.

EUTAW PLACE, from the north side of North avenue to the south side of Whitelock street, was paved with 3-inch trap-rock ASPHALT BLOCKS on a concrete base, and paid for by assessment on the abutting property owners under authority of Ordinance No. 70, approved July 7, 1900. The work was done by the Maryland Pavement Company under their contract (No. 615), dated September 6, 1900. The cost of the pavement, 23 feet wide, and redressing the kerb was $6.3917 per front foot, with a rebate of $0.1006, making the net cost of $6.2911 per front foot. Work was begun on June 20, and completed on August 13, 1903, from which date the pavement is guaranteed for five years. The collection of the assessments for this street were delayed nearly two years on account of appeal to the City Court.

The 4-inch concrete base is composed of one part Maryland slag cement (Improved Hydraulic), two parts sand and five parts broken stone. On this was spread a half-inch mortar bed composed of one part slag cement and three parts sand. The 3x4x12-inch blocks were laid on this bed before the cement had set and the joints grouted with neat slag cement. The total length of the pavement is 1,187 feet and the width between kerbs is 45.9 feet. The amount and cost of the work is as follows:

Final Estimate.

Asphalt block paving	6106.26 sq. yds. at	$2.35 ..	$14,349	71
Old kerb redressed and reset	1396.20 lin. ft. at	.20...	279	24
Old kerb redressed in place	639.00 lin. ft. at	.07...	44	73
Old kerb reset only	62.70 lin. ft. at	.10...	6	27

New 6-inch kerb	11.10 lin. ft. at 1 00...	$	11 10
Old flagstones reset	287 50 sq. ft. at 1.25...		35 93
Redressing flagstones, headers, etc			10 20
Total cost of paving, kerbing, etc		$14,737	18
Less penalty for 11 days at $10.00			110 00
Amount paid contractor		$14,627	18
Advertising, inspection, etc			175 16
Rebates to property owners, 2,289 ft. at $ 1006			230 25
		$15,032	59

Of this amount $14,632.90 was charged to Eutaw Place and $399.69 was charged to Cross Streets.

ASHLAND AVENUE, from the west side of Patterson Park avenue to the east side of Chester street, was paved with trap-rock ASPHALT BLOCKS on a concrete base and paid for by assessment on the property owners under anthority of Ordinance No. 21, approved January 13, 1902. The work was done by the Maryland Pavement Company, under their contract (No. 728), dated May 8, 1902. The assessment where new kerb was furnished was at the rate of $6.439 per front foot, and where the kerb was redressed and reset $5.667 per front foot. Work was begun on July 27, and completed on September 9, 1903, and is guaranteed for five years from the latter date. The total length of street paved is 728 feet and the width between kerbs is 39.6 feet. The pavement is laid on a 4-inch concrete base, composed of one part Maryland slag cement (Improved Hydraulic), two parts sand and five parts broken stone, and on the concrete is spread a half inch mortar bed composed of one part slag cement and three parts sand, in which the blocks were laid before the cement had set. The joints between the blocks were grouted with neat slag cement. The following statement shows the amount and cost of work done.

Final Estimate.

Grading	460.0 cu. yds.	at	$0.25...	$ 115 00
Asphalt block paving	3,510.0 sq. yds.	at	2.35...	8,248 50
New 5-inch kerb	1,399.0 lin. ft.	at	1.00...	1,399 00
New headers	66.0 lin. ft.	at	.75...	49 50
Old kerb reset	63.0 lin. ft.	at	.10...	6 30
Old kerb redressed and reset	6.0 lin. ft.	at	.25...	1 50
Old headers set	138.0 lin. ft.	at	.20 ..	27 60
Old gutters relaid	96.0 lin. ft.	at	.05...	4 80
Cobble repaving	49.0 sq. yds.	at	.27...	13 23
Belgian blocks on concrete	3.7 sq. yds.	at	2.35...	8 70
Belgian blocks relaid on concrete	5.3 sq. yds.	at	.80...	4 24
Total cost of paving, kerbing, etc				$9,878 37
Less penalty of 47 days at $10.00				470 00
Net amount paid contractor				$9,408 37
Advertising and inspection				192 94
Total cost of Ashland avenue				$9,601 31

Of this amount, $6,114.23 was charged to Ashland avenue, $792.10 to Paving in front of City Property, and $2,694.98 to Cross Streets.

CALVERT STREET, from south side of Baltimore street to north side of German street, was paved with CREO-RESINATE WOODEN BLOCKS on a 6-inch concrete foundation, under authority of Ordinance No. 72, approved June 19, 1902. The work was done by the United States Wood Preserving Company under their contract (No. 747), dated July 16, 1902. The work was paid for by the abutting property owners. The rate per front for the paving 19.1 feet wide was $7.65, and for reseting the kerb was 20 cents, or a total of $7.85 per front foot. The Belgian blocks, which were of good quality, were purchased by the city from the contractor and used on Light street south of Pratt street. The length of street paved is 215 feet, and the width between kerbs is 38.2 feet.

The six-inch concrete foundation was made of one part Maryland slag cement (Patapsco), three parts sand and five parts broken stone. On this base a cushion of sand one inch thick was laid and the wooden blocks paved on this bed.

The blocks are 4x4x8 inches and are treated as follows: They are placed in an air-tight cylinder, and subjected to dry heat at 215 degrees Fahrenheit for one hour to sterilize and dry the wood. Pressure up to 90 pounds per square inch is gradually applied for two hours and heat raised to 286 degrees, and both held there for one hour. Heat is then gradually reduced in one hour to 250 degrees and pressure to 40 pounds. Heat is then further reduced and pressure removed and vacuum applied to about 26 inches. The creo-resinate mixture is then run in at a temperature of 185 degrees, and under hydraulic pressure up to 200 pounds per square inch until the wood has taken up about 21 pounds of the mixture per cubic foot. This mixture is then run off and the wood treated with milk of lime at 150 degrees and under pressure of 200 pounds for one and one-half hours.

The blocks are laid with the grain vertical and joints filled with fine sand and rolled to a true surface.

The work was begun on April 3, and completed on April 23, 1903, and is guaranteed for five years from the latter date. The following statement shows the amount and cost of the work done:

Final Estimate.

Treated wood block paving	924.5 sq. yds. at $3.50	$3,235 75
6-inch kerb reset	39.3 lin. ft at .20	7 86
Cost of paving and kerbing		$3,243 61
Less old Belgian blocks	8,320.0 sq. ft. at .02	166 40
Amount paid contractor		$3,077 21
Advertising $49.50. Inspection $31.50. Rebate $6.42		87 42
Total net cost of paving Calvert street		$3,164 63

Of this amount, $3,051.01 was charged to paving Calvert street and $113.62 to Cross Streets.

HOFFMAN STREET, from the east side of Bond street to the west side of Broadway, was paved with VITRIFIED BRICK ("Iron Rock Blocks") on a concrete base, and paid for by assessments on the property owners under authority of Ordi-

nance No. 105, approved December 17, 1902. The work was done by the Filbert Paving and Construction Company under their contract (No. 767), dated February 20, 1903. The length of the street paved is 478.6 feet, and the width between kerbs is 12 feet.

The 4-inch concrete foundation is composed of one part Portland cement (Vulcanite), four parts sand and seven parts broken stone. On this base a two-inch cushion of sand was laid and the brick paved on the same. A joint along the kerb was left, and after the brick were laid it was filled with coal tar and similar joints were put across the street at intervals of about 100 feet. The joints between the brick were grouted with one part Portland cement to one part sand thoroughly mixed and swept in. Work was begun on September 14 and completed on October 14, 1903, and is guaranteed for five years from the latter date.

The following statement shows the amount and cost of the work done:

Final Estimate.

Vitrified brick paving	657.2	sq. yds. at	$2.18...	$1,432	70
New 4½-inch kerb set	917.6	lin. ft. at	.75...	688	20
Cobble paving in alleys	122.9	sq. yds. at	.35...	43	01
Vitrified brick in cross streets	8.05	sq. yds. at	3.00...	24	15
Extra grading	400.4	cu. yds. at	.35...	140	14
Kerb reset	54.4	lin. ft. at	.15...	8	16
Extra kerb dressing at Broadway				6	60
Total cost of grading, paving and kerbing				$2,342	96
Advertising and inspection				142	62
Total cost of Hoffman street				$2,485	58

Of this amount, $1,314.35 was collected from the property owners, $706.65 was appropriated from the Contingent Fund, $109.19 was charged to Paving in front of City Property, and $355.39 to Cross Streets.

NEW COBBLESTONE PAVEMENTS.

FAYETTE STREET AND THE PHILADELPHIA ROAD, from the east side of Luzerne street to the west side of Patapsco street, was paved with COBBLESTONE at the expense of property-owners and the city under authority of Ordinance No. 117, approved January 26, 1903. The work was done by Patrick Keelty under his contract (No. 776), dated March 19, 1903. The total length of street paved was 334 feet and the average width between kerbs is 67.5 feet. The work was begun on October 19, and completed on November 20, 1903, and is guaranteed for two years from the latter date.

The amount of work and cost of same is as follows:

Final Estimate.

New cobble paving	2,333.0	sq. yds. at	$ .95...	$2,216 35
Cobble repaving	423 0	sq. yds. at	.45...	190 35
New 4½-inch kerb	187.0	lin. ft. at	.75...	140 25
New 4½-inch circles	13.8	lin. ft. at	.75...	10 35
New flag crossings	410.0	sq. ft. at	.35...	143 50
Flag crossing reset	415.0	sq. ft. at	.05...	20 75
Old kerb reset	189.0	lin. ft. at	.10...	18 90
Cost of grading (800 cu. yds.), paving, etc				$2,740 45
Advertising and inspection				185 26
Total cost of Fayette street and Philadelphia road...				$2,925 71

Of this amount, $1,473.87 was charged to Fayette street, $1,320.13 to Paving in front of City Property, Special, and $131.75 to Paving in front of City Property, 1903.

BRUNT STREET, from southeast side of Baker street to northwest side of Bloom street, was paved and repaved with COBBLESTONE at the expense of the property owners under authority of Ordinance No. 49, approved May 1, 1902. The work was done by Daniel Sullivan under his contract (No. 751), dated August 9, 1902. The length of street paved is 754 feet, and the width between kerbs is 18 feet.

Work was begun May 5, and completed June 16, 1903, and is guaranteed two years from the latter date. The amount and cost of the work is as follows:

Final Estimate.

Grading	500 0 cu yds.	at	$0 30...	$ 150	00
New cobble paving	1,001.7 sq. yds.	at	1.09...	1,091	85
Cobble repaving	624.0 sq. yds.	at	.49...	305	76
New flagstones	360 0 sq. yds.	at	.30...	108	00
New 4½-inch kerb	848.0 lin. ft.	at	.80 ..	678	40
New 4½-inch circles	20.0 lin. ft.	at	1 50...	30	00
Old kerb reset	458.7 lin. ft.	at	.15...	68	80
Cost of grading, paving, etc				$2,432	81
Advertising and inspection				203	12
Amount refunded to property owners				111	24
Total cost of paving Brunt street				$2,747	17

Of this amount, $1,847.74 was charged to Paving Brunt street, $529.43 to Repairs of Roads, Streets, etc., and $370 to Cross Streets.

ROSE STREET, from the north side of Fairmount avenue to the south side of Fayette street, was paved with COBBLESTONE at the expense of the property owners under authority of Ordinance No. 62, approved June 6, 1902. The work was done by Ferguson & McCulloh under their contract (No. 754), dated September 9, 1902. The length of street paved was 437 feet, and the width between kerbs is 24 feet. Work was begun on April 23, and completed on June 3, 1903, and is guaranteed two years from the latter date.

The amount of work and cost of same is as follows:

Final Estimate.

New cobble paving	1,123.2 sq. yds.	at	$1 02...	$1,145	66
Cobble repaving	42.0 sq. yds..	at	.27...	11	34
New flagstones set	178.0 sq ft.	at	.33...	58	74
Old flagstones reset	62.0 sq ft.	at	.05...	3	10
New 4½-inch kerb	427.0 lin. ft.	at	.69 ..	294	63
Kerb circles	9.4 lin ft.	at	1 38...	12	97
Old kerb redressed and reset	10.0 lin. ft.	at	.35 ..	3	50
Old kerb reset	133.0 lin. ft.	at	.10...	13	30
Vitrified brick repaving	52.0 sq. ft.	at	.04...	2	08
Hauling vitrified brick					50
Cost of paving, kerbing, etc				$1,545	82
Advertising and inspection				133	63
Total cost of paving of Rose street				$1,679	45

Of this amount, $1,407.67 was charged to Paving Rose Street, and $271.78 to Cross Streets.

CAREY STREET, from the south side of Columbia avenue to the northwest side of Ward street, was paved with COBBLESTONE at the expense of the property owners under authority of Ordinance No. 63, approved June 6, 1902. The work was done by Wm. M. Elder under his contract (No. 755), dated September 16, 1902. The length of street paved was 224 feet, and the width between kerbs was 39.6 feet.

The work was begun on May 25 and completed June 17, 1903, and is guaranteed for two years from the latter date.

The amount of work and cost of the same is as follows:

Final Estimate.

New cobble paving	862.2 sq. yds. at	$ .88...	$ 758 74		
Cobble repaving	126.7 sq. yds. at	.36...	45 61		
Belgian block repaving	17.2 sq. yds. at	.12...	2 06		
New 4½-inch kerb	366.3 lin. ft. at	.65...	238 10		
New 4½-inch circles	18.8 lin ft. at	1.30...	24 44		
Kerb, redressed and reset	49.4 lin. ft. at	.30 ..	14 82		
Total cost kerbing, paving, etc				$1,083 77	
Less penalty, 2 days, at $10.00				20 00	
Net cost kerbing, paving, etc				$1,063 77	
Advertising and inspection				110 12	
Amount refunded to property owners				61 77	
Total cost of Carey street				$1,235 66	

Of this amount, $882.23 was charged to Paving Carey Street, and $353.43 to Cross Streets.

MONTFORD AVENUE, between the north side of Townsend street and the southeast side of Gay street, was paved with COBBLESTONE at the expense of the property owners under authority of Ordinance No. 50, approved May 1, 1902. The work was done by Wm. M. Elder under his contract (No. 752), dated August 9, 1902. The average length of street paved is 180 feet, and between the kerbs is 42 feet.

Work was begun on March 24 and completed on May 23, and is guaranteed for two years from the latter date.

The cost and amount of work done is as follows:

Final Estimate.

New cobble paving	671.5 sq. yds. at	$ .94...	$	631 21
Cobble repaving	170.0 sq. yds. at	.36...		61 20
New 4½-inch kerb	281.5 lin. ft. at	.65...		182 97
Grading	20.0 cu. yds. at	.30...		6 00
Cost of grading, paving, etc				$881 38
Advertising and inspection				105 97
Total cost of paving Montford avenue				$987 35

Of this amount, $851.17 was charged to Paving Montford Avenue, $74.98 to Cross Streets, and $61.20 to Repairs of Roads, Streets, etc.

NEW PAVING NOT COMPLETED.

The following four streets are to be paved with MACADAM 24 feet wide and with brick gutters and cobble rebuts 4 feet wide on either side at the expense of the abutting property owners. Contracts have been awarded to Chas. A. Hook, Jr., to do the work, and the assessments have been made up:

EIGHTH STREET, from north side of North avenue to the north side of Walbrook avenue, is to be paved under authority of Ordinance No. 151, approved May 8, 1903, and the work is to be done under Contract No. 807, dated October 17, 1903. The amount spent for advertising is $11.70. The estimated cost to pave the street is $1,500.

TENTH STREET, from the northeast side of Windsor Mill road to the north side of Chesapeake street, is to be paved under authority of Ordinance No. 149, approved May 8, 1903, and the work is to be done under contract No. 808, dated October 17, 1903. The amount spent for advertising is $11.71. The estimated cost to pave the street is $6,000.

TWELFTH STREET, from the northeast side of Windsor Mill road for a distance of about 175 feet northward, is to be paved under authority of Ordinance No. 152, approved May

8, 1903, and the work is to be done under contract No. 809, dated October 17, 1903. The amount spent for advertising is $11.70. The estimated cost to pave the street is $400.

CLIFTON AVENUE, from the east side of Tenth to northeast side of Windsor Mill road, and from southwest side of Windsor Mill road to the west side of Chelsea Terrace, is to be paved under authority of Ordinance No. 155, approved May 8, 1903, and the work done under Contract No. 810, dated October 17, 1903. The amount spent for advertising is $11.70. The estimated cost to pave the street is $4,600.

WINDSOR AVENUE, from the west side of Calhoun street to the east side of Stricker street, was directed to be paved with COBBLESTONE at the expense of the property owners under Ordinance No. 104, approved December 17, 1902, but it would seem from the records in the Library that this street had been closed (see Plat 808 and Street Book 69).

CHASE STREET, from the east side of Patterson Park avenue to the west side of Milton avenue, is to be paved with COBBLESTONE at the expense of the property owners under authority of Ordinance No. 158, approved May 19, 1903. The work is to be done by Patrick Reddington under his contract (No. 806), dated October 5, 1903. Assessments are being made up in this office at this time. The amount spent for advertising is $33.18. The estimated cost of the work is $3,800.

DUCATEL STREET, from the northeast side of Eutaw Place to the southwest side of Bolton street, is to be paved with ASPHALT BLOCKS, at the expense of the property owners, under authority of Ordinance No. 159, approved May 9, 1903. Proposals were asked for and bids opened in November, but were rejected because they were higher than the amount named in the ordinance. The amount spent for advertising on this street is $35.58. The estimated cost of the work is $8,700.

HENRY STREET, from the south side of Warren avenue to the north side of Hamburg street, was directed to be paved with BELGIAN BLOCKS, under Ordinance No. 60, approved June 6, 1902, as reported on page 61 of the Annual Report for last year. On April 9, 1903, an injunction was had to restrain the collection of the assessments, and no work has been done. The amount spent for advertising is $49.84. The estimated cost of doing the work is $1,200.

NORTHWEST STREET, from the west side of Fulton avenue to the east side of Payson street, was directed to be paved with VITRIFIED BRICK, at the expense of the property owners, under authority of Ordinance No. 80, approved June 25, 1902. The contract (No. 764), was awarded to Daniel Sullivan, December 9, 1902, to do the work, and assessments were made up in April, 1903. Appeals have been taken to the City Court, and no work has been done. The amount spent for advertising is $77.85. The estimated cost of doing the work is $10,300.

STOCKHOLM STREET, from east side of Carroll street to the west side of Wicomico street, was directed to be paved with COBBLESTONE, at the expense of the property owners, under authority of Ordinance No. 103, approved December 17, 1902. The contract (No. 793), to do the work was awarded to Patrick Reddington on March 26, 1903, and assessments have been made up, but, owing to questions of title to some private cross streets, have not been completed. The amount spent for advertising is $38.82. The estimated cost of doing the work is $8,500.

PAYSON STREET, from north side of Fayette street to south side of Edmondson avenue, is to be paved with ASPHALT BLOCKS, at the expense of the property owners, under authority of Ordinance No. 22, approved November 28, 1903. Surveys and specifications are in preparation, and contract will be let shortly. The estimated cost to do the work is $31,500.

IMPROVED PAVEMENTS PAID FOR BY CITY.

In the Ordinance of Estimates for 1902 there was an appropriation of $149,604 for improved pavements on certain streets, and in the same year there was an allotment from the Contingent Fund of $4,000 for East Baltimore street. The old cobblestone taken up from these streets were used for repairs on cobblestone streets and the value of the stone credited to the Fund for Improved Pavements. The paving along the curves on St. Paul street was paid for by the United Railways and Electric Company, and credited to Private Paving and Inspection, while for the curves at Harford avenue and North avenue was credited to the Fund for Paving North avenue. The following statement shows the credits to the Paving Fund and the amount expended on each street and the fund from which payment was made:

CREDITS.

Appropriation in Ordinance of Estimates for 1902		$149,604 00
Contingent Fund and Paving Certificates for East Baltimore street		4,000 00
Credits for old cobblestone, "Roads, Streets, etc"		3,748 00
Credits for old cobblestone, "Cross Streets"		196 86
Credits for paving in front of City Property, 1902		322 67
The United Railways and Electric Company for St. Paul street, 1902		943 36
The United Railways and Electric Company for North and Harford avenues, 1903		406 02
Building Inspector for footway No. 19 Engine House, 1903		293 06
Total amount available		$159,513 97
Surplus from East Baltimore street, 1902	$ 309 11	
Surplus from credits, 1903	2,266 28	2,575 39
Total amount spent on these streets		$156,938 58

EXPENDITURES.

Street.	Year.	Fund.	Amount.	Total.
Baltimore st.	1902	Contingent Fund	$ 3,324 50	
Baltimore st.	1902	Paving Certificates	366 39	$3,690 89
Hanover st.	1902	Ordinance of Estimates	19,679 54	
Hanover st.	1902	Cross Streets	196 86	19,876 40
St. Paul st.	1902	Ordinance of Estimates	15,974 46	
St. Paul st.	1903	Ordinance of Estimates	1,110 18	
St. Paul st.	1903	United Rys. & Electric Co.	943 36	18,028 00
E. North ave.	1902	Ordinance of Estimates	46,849 34	
E. North ave.	1902	City Property	322 67	
E. North ave.	1903	Ordinance of Estimates	24,616 88	
E. North ave.	1903	United Rys. & Electric Co.	406 02	
E. North ave.	1903	Building Inspector	293 06	72,487 97
McCulloh st.	1903	Ordinance of Estimates		3,212 87
W. North ave.	1903	Ordinance of Estimates		2,497 92
Fulton ave.	1902	Ordinance of Estimates	5 00	
Fulton ave.	1903	Ordinance of Estimates	18,423 84	18,428 84
Warren ave.	1903	Ordinance of Estimates		18,715 69
Total cost				$156,938 58

Of this amount, $86,718.76 was spent in 1902; $69,276.46 was spent in 1903 and charged to the Paving Fund, and $943.36 was charged to Private Paving and Inspection.

By the terms of the Ordinance of Estimates for 1902, the surplus from one street could be transferred to supply the deficiency on another, so that the appropriation was virtually a lump sum to be used on the designated streets and transfers were made in such a way that with the credits for old material, etc., the amount on each street exactly equaled the cost of the street, leaving the balances of $309.11 in 1902 and $2,266.28 on the whole work, rather than on any particular street.

East Baltimore street, St. Paul street and Hanover street were completed in 1902, and detailed reports of the amount and cost of the work are given in the report of last year.

East North avenue was partly completed and reported on last year. This street and the remaining four streets were completed this year, and detailed reports follow.

The total amount of new improved paving done out of the aforegoing funds in 1902 was Belgian blocks, 9,181 square yards; sheet asphalt, 7,185 square yards; vitrified brick gutters, 758 square yards, and asphalt blocks, 24,936 square yards; making a total of 42,060 square yards. During the year 1903 there was 19,719 square yards of new asphalt block paving laid in addition to the above, making a total of 61,779 square yards of new improved pavement laid out of the above funds.

Following is a detailed statement in connection with the streets paved:

EAST BALTIMORE STREET, from Kenwood avenue to Grove street, paved with SHEET ASPHALT out of the Contingent Fund for 1902. A detailed report is given on page 64 of the report for last year. The total cost of the street was $3,690.89. The length of street paved is 248 lineal feet, and the width between kerbs is 42 feet.

HANOVER STREET, from Fort avenue to Winder street, was paved with BELGIAN BLOCKS under authority of the Ordinance of Estimates for 1902. A detailed report is given on page 65 of last year's report. The total cost of the street was $19,876.40. The length of street paved is 1,926 lineal feet, and the width between kerbs is 39.6 feet.

ST. PAUL STREET, from the south kerb line of North avenue to the north building line of Twenty-fifth street, was paved with SHEET ASPHALT in 1902, as described on page 66 of the last annual report. The amount due the contractor at the end of the year from the city was $1,110.18, and for work along the railway tracks for the United Railways and Electric Co. was $943.36. The former was charged to "Paving St. Paul Street," and the latter to "Private Paving and Inspection." The total cost of the street was $18,028, including the amount paid by the railway company. The total length of the street paved is 2,556 feet, and the width between kerbs is 39.6 feet.

East North avenue, from Greenmount avenue to Broadway, is now paved with four-inch asphalt blocks on a six-inch concrete base. The work was begun on June 6, and continued to December 23, 1902, when it was stopped on account of freezing weather. Work was begun again on March 27, and completed on April 22, 1903, and is guaranteed for five years from the latter date; John L. Robertson, contractor. The details of construction, etc., are given on page 68 of the annual report of last year. The total length of street paved is 4,097 lineal feet, and the width between kerbs is 60 feet. The length of street paved in 1903 is 439 feet. The final estimate following shows the amount of work done and the cost of the same:

Final Estimate.

Asphalt block paving	27,928 66	sq. yds.	at	$2 42	$67,587	35
New 5-inch kerb set	2,310.1	lin ft	at	1.00	2,310	10
Kerb redressed and reset	4,827 6	lin. ft.	at	.28	1,351	72
Kerb redressed in place	207.4	lin. ft.	at	.18	37	33
Old kerb set as headers	605.9	lin. ft.	at	.15	90	88
Old kerb redressed for headers	605.9	lin. ft.	at	.05	30	29
Old kerb reset only	98.1	lin. ft.	at	.10	9	81
Cobble repaving	7,429.9	sq. ft.	at	.04	297	19
Total cost of paving, kerbing, etc					$71,714	67
Engineering, inspection, etc					773	30
Total gross cost of paving East North avenue					$72,487	97

Of this amount, $406.02 was paid by the United Railways and Electric Company for work between their tracks and two feet outside the same at North avenue and Harford avenue; $293.06 was paid by the Building Inspector for paving the footway in front of Engine House No. 19; $322.67 was paid out of the fund for Paving in Front of City Property, for that portion of the street in front of Engine House No. 19, and the balance of $71,466.22 was paid out of the Paving Fund. The first two items were credited to the Paving Fund, so that the charges for the work were $72,165.30 to North avenue, and $322.67 to Paving in Front of City Property.

McCULLOH STREET, from the northwest kerb line of Lanvale street to the southeast building line of Lafayette avenue, was paved with three-inch trap rock ASPHALT BLOCKS on a four-inch concrete base and half-inch mortar bed. The work was done by John L. Robertson under his contract (No. 731), dated May 9, 1902. The cost of the work was provided for in the levy of 1902. The concrete is composed of one part Maryland slag cement (Improved Hydraulic), three parts sand and five parts broken stone. On this concrete was spread a half-inch of mortar, composed of one part slag cement and three parts sand, and the asphalt blocks were laid on this bed before the cement had set. The joints between the blocks were then grouted with neat slag cement. The length of street paved is 330 feet and the width between kerbs is 35.1 feet. Work was begun on April 11, 1903 and completed on April 29, 1903, and is guaranteed for five years from the latter date. The amount of work done and cost of same is shown in the following statement:

Final Estimate.

Asphalt block paving	1,287.66	sq. yds.	at	$2.25...	$2,897 23
New 5-inch kerb set	116.7	lin. ft.	at	1.00...	116 70
Old kerb, redressed and reset...	502.8	lin. ft.	at	.28...	140 78
Old kerb, redressed in place.....	39.8	lin. ft.	at	.18...	7 16
Total cost of paving and kerbing					$3,161 87
Inspection					51 00
Total cost of McCulloh street					$3,212 87

WEST NORTH AVENUE, from the southwest kerb line of Pennsylvania avenue to 150 feet westward, was paved with four-inch trap rock ASPHALT BLOCKS on a six-inch concrete base, under authority of the Ordinance of Estimates for 1902. The work was done by John L. Robertson under his contract (No. 732), dated May 8, 1902. The length of street paved is 150 feet and the width between kerbs is 60 feet. The kinds and proportions of materials and the methods of doing the work are

the same as for East North avenue and described on page 68 of the annual report for last year. Work was begun on April 24, and completed on May 9, 1903, and is guaranteed for five years from the latter date. The following statement shows the amount and cost of the work:

Final Estimate.

Asphalt block paving	916.5	sq. yds. at	$2.39...	$2,190	43
New 5-inch kerb set	191.6	lin. ft. at	1.00...	191	60
Old kerb redressed and reset	93.0	lin. ft. at	.28...	26	04
Old kerb reset only	22.5	lin. ft. at	.10...	2	25
Old kerb redressed and reset as headers	142.6	lin. ft. at	.20...	28	52
Cobble repaving	65.5	sq. yds. at	.36...	23	58
Total cost of paving and kerbing				$2,462	42
Inspection, etc				35	50
Total cost of West North avenue				$2,497	92

FULTON AVENUE, from the southwest kerb line of Pennsylvania avenue to the northeast side of Druid Hill avenue, was paved with four-inch trap rock ASPHALT BLOCKS on a six-inch concrete base, under authority of the Ordinance of Estimates for 1902. The work was done by John L. Robertson under his contract (No. 733), dated May 8, 1903. Work was begun on May 1, and completed on June 22, 1903, and is guaranteed for five years from the latter date. The length of street paved is 1,229 feet, and the width between kerbs is 45 feet. The concrete base was made of one part of Maryland slag cement (Improved Hydraulic), three parts sand and five of broken stone. On this a half-inch mortar bed, composed of one part slag cement and three parts sand, was spread. The blocks were laid in this mortar before the cement had set, and the joints were grouted with neat slag cement. The amount and cost of the work is as follows:

Final Estimate.

Asphalt block paving	6,747.2	sq. yds.	at $2.39	$16,125	80
New 5-inch kerb set	1,775.8	lin. ft.	at 1.00	1,775	80
Old kerb redressed for headers	588.4	lin. ft.	at .05	29	42
Old kerb reset for headers	588.4	lin. ft.	at .15	88	26
Old kerb redressed and reset	155.6	lin. ft.	at .28	43	56
Old kerb reset only	236.7	lin. ft.	at .15	35	50
Cobble repaving	264.6	sq. yds.	at .36	95	25
Changing paving at alley east of Pennsylvania avenue				17	25
Total cost paving, kerbing, etc				$18,210	84
Inspection, etc. ($5.00 in 1902)				218	00
Total cost of Fulton avenue				$18,428	84

WARREN AVENUE, from the east side of Light street to 1,380 feet eastward, was paved with three-inch trap rock ASPHALT BLOCKS on a four-inch concrete base, under authority of the Ordinance of Estimates for 1902. The work was done by John L. Robertson under his contract (No. 729), dated May 9, 1902. Work was begun on June 3 and completed on July 25, 1903, and is guaranteed for five years from the latter date. The length of street paved is 1,394 feet, and the width between kerbs is 49.1 feet. The concrete base was made of one part Maryland slag cement (Improved Hydraulic), three parts sand and five parts broken stone, and on this a mortar bed one-half inch thick, composed of one part slag cement and three parts sand. The whole thickness is four inches. The blocks were laid on the mortar bed before the cement had set, and the joints between the blocks grouted with neat slag cement. The amount of work done and the cost of the same is as follows:

Final Estimate.

Asphalt block paving	7,774.0	sq. yds.	at $2.27	$17,646	98
New 5-inch kerb and circles set	1,327.6	lin. ft.	at 1.00	1,327	60
Old kerb redressed and reset	1,389.0	lin. ft.	at .28	388	92
Old kerb redressed in place	32.0	lin. ft.	at .18	5	76
Old kerb redressed and reset as headers	243.0	lin. ft.	at .20	48	60

Old kerb reset only	64.0 lin. ft.	at	.10	6 40
Old flagstones reset	246.0 lin. ft.	at	.04	9 84
Extra work on footways and flagstones				28 42
Total cost of paving, kerbing, etc				$19,462 52
Inspection				148 17
Total gross cost of Warren avenue				$19,610 69
Less penalty 89½ days at $10.00				895 00
Net cost of Warren avenue				$18,715 69

McComas street, from west side of Hanover street to west side of Creek alley, is to be paved with asphalt blocks, under authority of Ordinance No. 156, dated May 9, 1903. The appropriation is $13,800, and is provided for in the Ordinance of Estimates for 1904.

PAVING AND REPAVING CROSS STREETS.

The total amount spent out of this fund under my direction is $7,375.04. Of this amount $323.58 was carried forward from the Cross Street fund of 1892 to be applied on East Baltimore street. The total amount spent on Cross Streets in connection with improved pavements and pavements paid for by assessment is $5,980.74. The amount of work done in these Cross Streets is shown in connection with the reports on various streets. The amount of money spent on each street is as follows:

STREET INTERSECTIONS.

Ashland ave., Patterson Park ave. to Chester st	$2,694 98
Baltimore st., Grove st. to eastern city limits	815 14
Baltimore st., Grove st. to eastern city limits (special)	323 58
Eutaw Place, North ave. to Whitelock st	399 69
Hoffman st., Broadway to Bond st	355 39
Calvert st., Baltimore st. to German st	113 62
Carey and Ward streets, 75 sq., yds. vitrified brick	117 25
Brunt st., Bloom st. to Baker st	370 00
Carey street, Columbia ave. to Ward st	353 43
Rose st., Fayette st. to Fairmount ave	271 78
Montford ave., Townsend st. to Gay st	74 98
Gay st. and Montford ave. (repaving)	90 90
	$5,980 74

FOOTWAY REPAIRS.

Repairs to footways in street intersections have been continued as heretofore by one bricklayer and one carter. The repairs cover the entire city and are usually small. The cost per square foot is of course large because of the time spent in going from one place to another. Sometimes from 4 to 8 repairs are made in a day. The number of repairs made is 665, and average area is 50.8 square feet. The total area repaved with new brick is 5,076 square feet, and the area repaved with old brick is 28,218 square feet, making a total of 33,294 square feet. The average cost of labor for both kinds is 3.14 cents per square foot. The total cost of the work is as follows:

Labor, grading, paving, etc	$1,045 98
23,127 No. 2 brick at $10.00 per M	231 27
54.87 cubic yards sand at 85c	46 64
	$1,323 89

In addition to the above, repairs were made by contract at three places as follows:

Cement walk at southwest corner Charles st. and Centre st	$21 84
Cement walk at Ashland ave. and Patterson Park ave	10 21
Iron pipe at Twenty-sixth st. and Morton alley	10 15
Miscellaneous, tools, etc	28 21
	$70 41

PAVING IN FRONT OF CITY PROPERTY.

The amount of money spent out of this fund under my direction was $1,784.37. Of this amount $1,040.71 was for new paving on assessment streets in front of city property and $743.66 was for paving footways in front of city parks. The amount of new street paving is given under the reports on the various streets.

The cost and cost per square yard of the footway on the south side of Patterson Park is as follows:

Items.	Cost.	Cost Per Sq. Yd.
206 cu. yds. grading at 45c	$ 92 70	$ .0557
1,659 sq. yds. paving at 16c	265 44	.1600
Hauling cinders—labor and cart	31 25	.0188
1,200 vitrified brick at $20.00	24 00	.4002
64,000 paving brick at $10.00	640 00	
155 cu. yds. sand at 85c	131 75	.0795
Total cost of footway proper	$1,185 14	$ .7142
11 feet new kerb at 60c	6 60	
35 feet kerb reset at 15c	5 25	
Cobble repaving, etc	5 20	
	$1,202 19	

Of this amount $396.46 was charged to City Property and $805.73 to City Property "Special."

The area of footway paving on Fulton avenue along Druid Hill Park is 444 square yards.

The following table shows the cost of each piece of work:

Paving East Fayette street, labor and material	$ 139 42
Paving Ashland avenue, " "	792 10
Paving Hoffman street, " "	109 19
Paving footway south side of Patterson Park, labor	396 46
" Fulton ave. and Druid Hill Park, labor	91 17
" " " " material	180 28
" Mount and Cole streets, labor	33 00
" " " material	26 00
" Federal Hill Park, material	15 00
" Madison Square, material	1 75
Total	$1,784 37

PAVING IN FRONT OF CITY PROPERTY, "SPECIAL."

The principal work charged to this account was for the paving of the bed of the Philadelphia road, between Luzerne and Patapsco streets, in connection with the paving of Fayette street, which was done at the expense of the city (the quantities for this work are given under the report on Fayette street), part of the paving of the footway on the south side of Patterson Park and some small work along other city property.

The following table gives the cost of the work charged to this account:

Paving East Fayette street, labor and material	$ 1,339	13
Paving footway south side Patterson Park, material	802	35
Paving footway south side Patterson Park, labor	3	38
Repaving footway on McCulloh street, labor	23	91
Repaving footway at Federal Hill Park, labor	39	00
Repaving footway at Old Southern Police Station, labor	2	45
Repaving footway at Madison Square, labor	13	00
Total	$ 2,223	22

REPAIRS OF ROADS, STREETS, ETC.

The work under my direction which was charged to this account was the city's portion of the paving of Brunt street and Montford avenue, as reported under those streets; the repairs of footways where the owners failed or refused to make the repairs; the labor on some footway repairs on paved streets and at street intersections, etc. The amount of money spent for each kind of work is as follows:

Paving Brunt street	$ 529	43
Paving Montford avenue	61	20
Cement kerb at North avenue and Madison avenue	93	78
Footway assessments, labor	132	24
Footway assessments, materials	93	27
Footway repairs on paved streets, labor	102	78
Footway repairs on paved streets, materials	39	80
Repairs to footway intersections, labor	127	37
Inspector on Fulton avenue and East Baltimore street	12	00
Rent of storage lots	31	00
Miscellaneous	32	85
Total	$ 1,255	72

GRADING AND KERBING TWENTY-NINTH STREET.

The only work done under my direction and charged to this account was the filling in of 1,300 cubic yards of material east of Remington avenue at 28 cents per cubic yard, $364.00

PAVING CERTIFICATES AND INTEREST.

The guarantee on two macadamized streets in Walbrook expired during the year and on one street paved with asphalt blocks. The 10 per cent. retained was paid, together with the interest on the same, as shown below:

Street.	From	To	Certificate.	Interest.
Thirteenth st	North ave	Clifton ave	$208 10	$24 97
Clifton ave	Eighth st	Ninth st	212 41	25 49
Grant st	Baltimore st	German st	65 00	13 00
Totals			$485 51	$63 46

PRIVATE PAVING AND INSPECTION.

Moneys deposited by private individuals or corporations to pay for paving, inspection, etc., of work done by the city or by private contracts, under the supervision of the city, is credited to this fund. The amount of this fund spent under my direction in 1903 was $2,196.78. The new work done in this way was the paving of certain street intersections on East Baltimore street, as noted under that street, and the paving of 116 square yards of vitrified brick (Iron Rock Block) on six-inch concrete foundation on the west side of Eutaw street north of Barre street for the Baltimore Refrigerating and Heating Company at $1.94 per square yard. In connection with the paving of St. Paul street the United Railways and Electric Company paid for the work along their tracks at North avenue and at Twenty-fifth street. The amount of this work is included in the report on St. Paul street. On Fulton avenue, from Presstman street to Clifton avenue, the United Railways and Electric Company failed to restore the pavement where repairs to rail joints had been made, and the city did the work at their expense. The amount of this work was 99.2 square yards brick on concrete and 26.7 square yards sheet asphalt at $1.54—$193.89.

Extensive repairs were made to Maryland avenue and Falls road bridges, and slight repairs to four other bridges between the tracks and two feet outside after notice had been served

on the United Railways and Electric Company to make the repairs. The work was done by the city, and bills sent to the railway company. These have not been paid pending a decision by the courts as to the responsibility of the company to repair the floors of bridges.

The cost of the above and other work done under this account is given in the following table:

Amount.	For whom	On account
$ 285 76	George A. Blake and others	Paving East Baltimore st.
225 00	Baltimore R. & H. Co	Paving South Eutaw st.
943 36	United Railways & Electric Co.	Paving St. Paul street.
193 89	United Railways & Electric Co.	Paving Fulton avenue.
305 74	United Railways & Electric Co.	Repairs to Maryland ave. bridge.
99 40	United Railways & Electric Co.	Repairs to Falls road bridge.
33 02	United Railways & Electric Co.	Repairs to Light st. bridge
16 57	United Railways & Electric Co.	Repairs to Edmondson avenue bridge.
11 46	United Railways & Electric Co.	Repairs to Fayette street bridge.
1 66	United Railways & Electric Co.	Repairs to Preston street bridge.
20 25	Consolidated Gas Co	Inspection of Jones' Falls wall.
8 22	Consolidated Gas Co	Repairs to pavement on Mt. Royal avenue.
6 00	C. & P. Telephone Co	Inspection North avenue and Pennsylvania ave.
7 50	Water Department	Inspection Cedar avenue bridge.
4 45	Building Inspector	Repairs to footway.
24 41	N. R. Gorter	Footway on Morton alley, south of Biddle street.
1 67	St. John Shafer	Footway on Eleventh and Clifton avenue.
5 75	Edward I. Clark	Footway on Twenty-seventh and Charles sts.
1 92	Mr. Hirt	T. C. pipe on Warren ave.
75	Woman's College	Hauling gutterplate.
$ 2,196 78		

MAINTENANCE OF BRIDGES AND CULVERTS.

The principal work in connection with the maintenance of bridges was the remodeling of the street railway bridge on Mt. Vernon avenue into a highway bridge 650 long and 30 feet wide, with wooden floors; the replacing of three old wooden bridges on Calverton road, Union avenue and Beech avenue with permanent ferro-concrete culverts; the replacing of wooden floors on four bridges with permanent ferro-concrete floors on Aliceanna street and Canton avenue over Central avenue canal, Old Liberty road bridge and Reese street bridge; extending the wing walls and filling in the approaches to Merryman's lane bridge and Union avenue bridge over Jones' Falls; laying treated wood block floors on Chase street, Eastern avenue and Block street bridges; painting Biddle street bridge; laying new plank floors on Hillen street, Canton avenue, Bath street, Centre street, Argyle avenue and Maryland avenue bridges, and the replacing of the wooden floor on Friendship street bridge by flagstones. The same policy of replacing old wooden bridges with permanent structures as has been pursued in the past was continued during the year when they had to be renewed. The large iron and steel bridges will need to be cleaned and painted, and it would greatly decrease the cost of cleaning, we believe, if the city owned a sand blast apparatus, and the work would be done so much better as to warrant the cost of the plant. The amount of money appropriated for maintenance of bridges in the Ordinance of Estimates for 1903 was $34,060; to this was added $1,775 from the Contingent Fund, making a total of $35,835. The amount spent and charged to this fund was $35,541.58, leaving a balance of $293.42, which is carried forward to pay outstanding contracts on Madison street bridge. Beside this there was $467.85 spent for repairs along the street railway tracks and charged to Private Paving and Inspection. Of the above amount $10,186.77 was spent for permanent structures or floors to replace wooden bridges or floors; $8,278.37 was used to replace plank floors by treated

wood block pavements; $7,355.59 was used to remodel Mount Vernon avenue bridge; $1,298.28 was used to paint Biddle street bridge, and the balance of $8,422.57 was used to renew plank floors and general repairs.

The table below shows a list of 27 wooden bridges and culverts which have been replaced by permanent structures or floor systems in the past five years. It also gives the area of wooden floors replaced, the kind of construction used and the cost. The total area of plank floor space replaced is 34,035 square feet; the total cost is $27,033.92. If we take the actual cost of repairs on each of these bridges from January 1, 1897, up to the time it was replaced by the permanent structures, and divide this amount by the time in years, we get the average cost of repairs per year; and the sum of these results is the average cost of repairs per year on all of them. This amount is $1,241.30. If this is capitalized at 4 per cent., we have $31,032.50 as the amount which we could spend to replace the old wooden structures by new permanent structures. This is $3,998.58 more than the actual cost. The $1,241.30 is the actual cost of repairs, and does not include any part of the original cost or the amount it would have cost to have renewed the structure with wood. It would be fair, in making this comparison, to have included the latter cost, as the bridges and culverts were in such a condition that it was necessary to entirely renew most of them if it had not been decided to build the permanent structures. I estimate that it would have cost $9,210 to have renewed these structures with wood, so that this, added to the $3,998.58 above, would make a total saving of $13,208.58 in favor of permanent construction as against wood. It is interesting to note that the average annual cost of maintaining these wooden structures is 3.65 cents per square foot per year, and that the average cost of floor replaced by the permanent structures is 79 cents per square foot. These bridges are what might be called representative city bridges so far as travel is concerned. Some of them are in the heart of the heavy hauling

district and some are in the suburbs; some are large and some are small.

BRIDGES AND CULVERTS REPLACED BY PERMANENT CONSTRUCTION, 1899-1903, INCLUSIVE.

Bridge.	Sq. Ft.	Replaced by.	Year.	Cost.
Kate ave	108	T. C. pipe	1899	$ 115 41
Loney's la. and Baltimore Cem.	256	T. C. pipe	1899	163 32
Harmon's	18,702	Earth fill	1900	2,605 89
Stafford la	289	Stone arch	1900	885 85
Boston street	2,237	Brick arch	1901	7,780 66
Dead Run	980	Stone arch	1901	2,201 52
Eighth street	145	T. C. pipe	1901	658 17
Morris ave. No. 1	350	Flagstones	1901	77 48
Morris ave. No. 2	392	T. C. pipe	1901	62 86
Morris ave. No. 3	215	Brick arch	1901	182 62
Morris ave. No. 4	300	Brick arch	1901	208 81
Windsor Mill road	176	Stone flags	1901	152 93
Central ave. and Lancaster st	1,427	Ferro-Con. slab	1902	1,103 58
Loney's la. near Hoffman st	160	T. C. pipe	1902	216 08
Loney's la. and Monument st	120	T. C. pipe	1902	131 03
Loney's la. and Biddle st	72	T. C. pipe	1902	47 27
Old York road	252	Flagstones	1902	153 67
Beech ave	344	Ferro-Con. box C.	1903	569 84
Calverton road	914	Concrete arch	1903	2,920 31
Central ave and Aliceanna st	1,960	Ferro-Con. slab	1903	1,132 21
Central ave and Canton ave	1,061	Ferro-Con. slab	1903	672 91
Friendship st	272	Flags	1903	213 66
Merryman's la. approach	1,387	Earth fill	1903	1,537 86
Old Liberty road bridge	856	Ferro-Con. slab	1903	422 24
Old Liberty road culvert	198	Ferro-Con. slab	1903	75 99
Reese st	260	Ferro-Con. slab	1903	131 03
Union ave. culvert	602	Ferro-Con. box C.	1903	2,510 72
	34,035			$26,933 92

The following detailed statement gives a description of the principal work done and the cost of the units of such items as could be given:

Mt. Vernon Avenue Viaduct. This bridge was built in 1892 by the Variety Iron Works Company of Cleveland, Ohio, as a street railway bridge for the Lake Roland Elevated Railway, and was transferred to the city as part consideration for the franchises granted to the United Railways and Electric Company in Ordinance No. 103, approved January 16, 1901. Under Ordinance No. 57, approved May 19, 1902, a street 66 feet wide was condemned from Twenty-eighth street to Cedar avenue and known as Mt. Vernon avenue. The bridge lies in the centre of this street. Description: Beginning at the southern end of the bridge there are 4-42 feet plate girders, alternating with 4-22 feet plate girders. The former are 36 inches deep at the middle and 24 inches at the ends, and the latter 24 inches deep throughout. The girders are spaced 16 feet centre to centre. North of these there are three deck trusses of 130 feet span each. These trusses are made of angle irons, the centre one being 22 feet deep at the centre, and the other two 14 feet deep at the centre. There are three trusses spaced 8 feet centre to centre, so that the outside trusses are 16 feet apart, the same as the plate girders. The total length of the bridge is 646 feet centre to centre of end bearings. The length of the floor as remodeled is 650.5 feet. The rails were removed by the railway company and the old cross ties and guard rails by the city, and the floor of the bridge remodeled as a highway bridge with a 20-foot driveway in the centre and a 5-foot sidewalk on either side. The iron work was in very bad condition, and was cleaned and painted with two coats of Princess metallic brown. The best of the old 8x14-inch cross ties were used as stringers for the roadway for a distance of about 300 feet from the north end of the bridge. All the rest of the lumber used was new Georgia pine. On the girder spans 4x12-inch stringers, and on the trusses 3x12-inch stringers

spaced 2 feet centre to centre were used, each fourth stringer extending out to the full width of the bridge to support the footways. Beveled strips were laid on top of the stringers so as to give the driveway a crown of 3 inches in the centre. The bottom is 2x8 and 2x10-inch plank, dressed to a uniform thickness and laid parallel to the direction of the bridge. The top floor is of 3x10-inch plank, dressed and laid at right angles to the direction of the bridge. The footway floor is of 2x8-inch plank, dressed and carried on two 3x8-inch and one 4x8-inch stringers. The 1,330 feet of wire panel handrail was furnished and erected at $1.15½ per lineal foot. The handrail posts are spaced 10 feet apart, and are bolted to the outside stringers of the footway. The cost of laying 116,042 feet B. M. of new lumber and 12,432 feet B. M. of old lumber was $4.60 per 1000 feet B. M. The abutments at each end of the bridge were extended out to the 30-foot width of the bridge, and concrete was put around the base of the iron posts to protect them from the earth fill being made under the bridge.

The heavy rain of July 12 washed out one of the stone pedestals supporting an iron post and a large amount of earth. The pedestal was replaced by concrete and 195 cartloads of earth fill hauled in. A wood flume was made to carry the storm water past this pier, which should be replaced by a pipe sewer.

Chase Street Bridge.—The entire wooden roadway floor and stringers were removed. The entire span over the railroad was cleaned and painted with two coats of Princess metallic brown. The trusses above the floor were cleaned and painted with two coats of Carrara paint, and the handrails with Etna iron paint. The old floor and stringers were replaced by all-heart, long leaf pine treated with 16 to 18 lbs. of creo-resinate mixture to the cubic foot of lumber. The stringers are 3x12, 32 and 34-feet treated plank, and are carried on beveled strips on top of the floor beams so as to

give the bridge a crown of 4 inches in the centre. The bottom floor is of 3x12, 14 and 24-feet plank, dressed to a uniform thickness and laid close, and on this the 42,800 3x4x 8-inch creo-resinate paving blocks are laid and the joints filled with fine sand. The blocks are treated with 20 to 22 lbs. of the creo-resinate mixture per cubic foot. The method of treating the blocks is described under the head of paving Calvert street on page 56. The roadway surface is 254 feet by 37 feet wide. The blocks were laid close, and after a time the expansion from moisture was so great as to raise the blocks from the lower floor, and a number of blocks had to be removed to bring the blocks down to the lower floor. This expansion on other bridges seems to have been greatly diminished by filling the joints with coal tar. The area of the new treated wood pavement on this bridge is 9,460 square feet. The cost of tearing out the old floor and replacing it with new treated stringers, lower floor and wooden blocks was nearly 50 cents per square foot.

Calverton Road Culvert.—The wooden truss bridge on the Calverton road over Gwynn's Run was very old and rotten, the span of 29 feet gave a larger waterway than was needed, and it was decided to replace it with a concrete arch. In determining the waterway required it was found that the drainage area was 3,375 acres. With a run off of 0.625, a rainfall of 3 inches per hour and a velocity of 21 feet per second at the bridge the required opening was found to be 117 square feet. The area of the waterway as built is 140 square feet, or about 20 per cent. larger than the computed area. The arch is semi-circular with span of 12.5 feet resting on side walls about 6 feet high from the dry weather flow line. It crosses the Calverton road at an angle of about 60 degrees. The culvert is of concrete, except that the side walls are faced with stone masonry 15 inches thick. The thickness of the key is 15 inches. The arch increases to 42 inches at the springing line. The side walls are 48 inches thick at the

base, decreasing to 40 inches at the springing line. The end walls are 36 inches thick at the springing line and decrease to 18 inches at the top of the parapets, which are 3 feet above the level of the roadway. The length of the side wall is 38.8 feet, and the perpendicular distance between end walls is 33.8 feet from out to out. The clear width of roadway, including two footways four feet wide, is 30.8 feet. The foundations of the side walls are on solid rock. The south wall of the new culvert was built against the south wall of the old bridge and is 36 inches thick. The wing walls at the southeast and northwest corners are 24 feet and 15 feet long respectively, 36 inches thick at the bottom and 18 inches thick at the top. In building the side and end walls, stone from one-half to two cubic feet in volume were bedded in the concrete, with a space of at least 4 inches between adjoining stones, the concrete being well tamped around the stones. The arch was entirely of concrete with a facing of 1 to 2 cement mortar one-half inch thick, put on the centres before placing the concrete. The top of the old retaining wall at the southwest corner of the culvert was taken down and replaced by a concrete wall 30 inches high by 24 inches wide by 34 feet long.

The concrete was made of Nazareth Portland cement, stone dust and crushed stone; the stone were sizes Nos. 2 and 3, being respectively that which would pass a two and one-inch ring. In the bridge there were 202.3 cubic yards of No. 2 stone, 24.4 cubic yards of No. 1 stone and 126.5 cubic yards of stone dust used. The concrete was mixed by a Ransom mixer in the proportion of 1 cement, 2½ stone dust and 5 broken stone. In 1902, 75 cubic yards of building stone from Central avenue sewer were hauled to this culvert. This and a part of the stone from the old south abutment was used in laying up the facing of the side walls and filling in the concrete of the side and end walls. The total amount of concrete and masonry in the new structure is 371 cubic yards.

After the arch was completed and filled in, about six inches of crushed stone was spread over the roadway, and two footways four feet wide constructed of cinders.

The total cost of the work, including tearing out old bridge, new centers, 375 cubic yards earth filling, new culvert, wing walls, etc., was: Labor, $1,530.38; material, $1,389.93; total, $2,920.31. This would give a total average cost of $7.89 per cubic yard for the 371 cubic yards of concrete and masonry

The items of cost are as follows:

Total city labor	$1,449 57
Cement, $695.03; stone and screenings, $509.07	1,204 10
Lumber, $63.79; hauling, $55.50	119 29
Repairs to mixer, $27.20; oil and gasoline, $15.55	42 75
Water supply, $30.04; iron, $11.61	41 65
Fill, $43.50; tools, $19.45	62.95
Total	$2,920 31

Union Avenue Culvert over Mill Race.—This is a ferro-concrete box culvert to replace an old wooden truss bridge of 29 feet span and 22 feet wide. The new culvert is 40 feet long out to out, 6 feet 9 inches high above ordinary flow line, and 9 feet 11 inches span. A 30-inch cast-iron sewer pipe passes through the culvert, so that the gross waterway is reduced from 81.3 square feet to 56.3 square feet. The area of the head gates when full open is 30 square feet, so that the net waterway is nearly 90 per cent. greater than that of the head gates. Owing to the amount of water to be handled and the lack of room, the construction was more difficult and expensive than it otherwise would have been. Work on the foundations had to be carried on day and night from June 30 to July 6 in order to get it done while the cotton mills were shut down. The foundation for the side walls was sunk in soft mud to a depth of 36 inches below the ordinary flow line for the east wall and 42 inches for the west wall. A six-inch layer of larger stone was settled into the mud for a foundation on which to start the concrete. The foundation of the east wall, which is built against the east abutment of the old bridge, is 42 inches wide, while that of the west wall is 62 inches wide. A 9-inch layer of concrete was laid on the

foundation stone, and on this a grillage of ¾-inch round steel rods, 12 inches center to center each way, was laid. The foundation was carried up full width to within 2 feet of the flow line, and was there drawn in on an angle of 45 degrees, so that the thickness of the east wall at the flow line is 18 inches, and at the top is 12 inches. The west wall is uniformly 14 inches thick from the flow line to the top. The face of both walls is vertical. The east abutment of the old bridge was shoved out six inches at the top, so that the wall on this side is not so thick at the top as at the bottom. Vertical rods of ¾-inch steel were set in the side walls 2.5 inches from the face of the walls, and spaced 12 inches center to center. At each end and in the center 12x12 inch ferro-concrete sills were built between the foundations to resist the inward thrust on the side walls. The retaining walls for the roadway are 12 inches thick from the coping to the level of the roadway, and from there to the bottom have a batter on the inside to a thickness of 33 inches in the south wall and 26 inches in the north wall. These retaining walls are also strengthened by steel rods imbedded in the concrete. The slab forming the cover is 12 inches thick with one-inch steel rods laid 6¼ inches center to center, the centers of the rods being 1½ inches above the bottom of the slab. The clear span of the slab is 9.75 feet. The top of the slab is 40 inches below the surface of the roadway, so that the dead load on the slab is about 450 lbs. per square foot, and the total dead load on the sub-foundation about 1,000 lbs. per square foot. From Y level readings on the soffet at the southeast corner on August 8 and December 9, 1903, the results show a settlement of ⅓ of an inch, but as there were no signs of cracking, the whole structure must have settled uniformly. The concrete was composed of one part Nazareth or Alpha Portland cement, 2½ parts sand and 5 parts crushed stone. The concrete was mixed in a No. 3 Ranson machine which was run by a White & Middleton 5-horse-power gasoline engine. About 30 cubic yards of large stone were imbedded in the concrete in the retaining walls to reduce the cost.

The items of cost, including tearing out old bridge, coffer-dams, filling pumping centres, new culvert and everything in connection with the completed work, are as follows:

Items.	Cost.	Per cent.
Total, Labor, Watchman, etc	$1,250.09	49.8
Cement, 196 bbls	401.91	16.0
Stone, 221 cubic yards	376.25	15.0
Sand, 72 cubic yards	100.73	4.0
Steel rods, 6,603 lbs.	164.32	6.5
Lumber, $58.83; hauling, $64.50	123.33	4.9
Water supply, $35.49; oil, $23.00	58.49	2.3
Filling sundries	35.60	1.5
	$2,510.72	100.0

The total volume of ferro-concrete work is 148.9 cubic yards. This would give the total cost, including all the work, as $16.87 per cubic yard. The fact that the labor item is nearly 50 per cent. of the total cost shows that the extra work in connection with the foundations greatly increased the cost of the work.

Eastern Avenue Bridge.—The roadway floors of this bridge were in bad condition, and were entirely removed. The floor beams were cleaned and painted, and small concrete walls were built on the bridge seat in such a way as to shorten the bridge about 2.3 feet. An entirely new floor of creo-resinate treated Georgia pine lumber and blocks was laid. The stringers are of 4x8x30-inch treated Georgia pine spaced 18 inches centre to centre, and so arranged as to give the roadway a fall of 2 inches from the centre to the sides. The bottom floor is of 3″x12″x18-feet treated plank laid close, and the top floor of 3x4x8-inch treated wood blocks. To determine the best method of laying blocks on bridges the lower floor of the north driveway was caulked, and a half-inch of fine sand laid on which the blocks were paved and brought to a true surface. The joints of the west half of this driveway were poured with hot paving pitch, and the east half were filled with fine sand. The south drive-way had no sand cushion, but the blocks were laid directly

on the lower floor, which was dressed to a true surface. The joints in the west half of this driveway were filled with hot paving pitch, and the east half filled with fine sand, the lower floor having been caulked with oakum before the blocks were laid. It is too early to decide from these experiments the best method; but from observations on this and other bridges it would seem that there is no advantage in the sand cushion if the lower floor is of plank dressed to a uniform thickness, and that there is a decided advantage in pouring the joints with hot pitch, as it very largely prevents expansion due to moisture in the joints, and, perhaps, in the blocks themselves, until the ends of the pores are closed by travel. The area of the treated wooden block floor is 3,990 square feet. The cost of tearing out the old floor and replacing it with new treated stringers and lower floor and 3-inch treated wooden blocks was 56 cents per square foot.

MERRYMAN'S LANE BRIDGE.—The east approach to this bridge was three 20-foot spans, with wooden floor 22 feet wide. The floor was carried on 6x10 wood stringers, resting on 15-inch "I" beams, which in turn rested on wooden trestles on stone piers and two stone abutments. The wing walls of the east abutment of the main bridge over Stoney run were extended, and the wooden approach removed and filled in with 1,718.5 cubic yards of earth at 40 cents per cubic yard. This earth was taken from the bed of Merryman's Lane to decrease the grade of the hill between the bridge and Charles street. The total amount of stone masonry laid up with cement mortar in the wing walls was 169.6 cubic yards.

The cost of the masonry was as follows:

Items.	Cost.	Cost Per Cu. Yd.
Foreman, $48.00; labor, $113.25	$161.25	$ .95
Stone masons, 33 days at $4.00	132.00	.78
Sand, 42.4 cu. yds. at 88c	37.31	.22
Cement, 80 bbls. Alpha at $1.986	158.86	.94
Stone, 161.01 cu. yds. at $1.66	267.28	1.57
Totals	$756.70	$4.46

The east abutment of the bridge over Stoney Run was undermined and in bad condition generally. It was underpinned along the stream and the face wall pointed up. The 12-15-inch "I" beams taken from the approach were used for a permanent floor on the Old Liberty Road bridge. The wooden floor on the bridge over Stoney Run was removed and purlin strips laid on the floor beams, so as to give the floor a crown of 2½ inches in the centre. The best of the stringers from the bridge and approach were used and new 2-inch bottom floor and new 3-inch top floor laid.

Block Street Bridge.—The entire roadway floor was removed and the old stringers relaid, so as to give the floor a crown of 2 inches in the centre. New 3x12 Georgia pine plank (not treated), dressed to a uniform thickness, were laid as a bottom floor and covered with a heavy coat of coal tar. On this floor 3x4x8-inch creo-resinate wood paving blocks were laid and the joints poured with hot coal tar, and the whole surface covered with a thin layer of fine, dry sand. The area of the block pavement laid was 3,560 square feet and the total cost was $.394 per square foot. Five old broken fender piles around the draw pier were pulled out and 44 new ones driven beside others which were rotten. Slight repairs were made to the machinery and a new roof was put on the engine-house. The 4-inch lead water service pipe laid in a cement box under the east channel in 1901 shows no signs of failure, and is a decided economy as compared with an iron pipe in the polluted water of the City Dock.

Madison Street Bridge.—The floor of this bridge was in bad condition, and it was decided to remodel the floor and lay a new one of creo-resinate plank and paving blocks. When the old floor and stringers, which rested on wooden sills laid on the bottom flange of the plate girder floor beams, were removed it was found that the web of the girders had entirely rusted through in many places where it joined the angle irons of the lower flanges. Contracts had to be let

to reinforce the floor beams by riveting 16-¼″x14″x18-feet plate on either side of the web and 16-5″x3″x5-16″ angles 18 feet long to the lower part of the web and the lower angles of the old floor beams. This work is underway at this time. The treated plank and paving blocks have been delivered and paid for and the floor will be laid as soon as the iron work is completed.

Biddle Street Bridge.—The iron work of this bridge was cleaned, and the portion below the floor was painted with two coats of Princess metallic paint. The hand-rail was painted with Etna iron paint. The bridge had not been painted since 1898-99. The total area of iron work painted is 50,000 square feet. The cost of scaffolding and cleaning is 1.6 cents per square foot, the cost of labor and painting is 0.68 cents per square foot, and the cost of paint, etc., is 0.31 cents per square foot. The floor of this bridge is paved with sheet asphalt, and is in such bad condition that the water runs through and rusts the buckle plates and parts of the floor beams.

I would recommend that a new floor of vitrified brick, grouted and laid in coal tar be used to replace the present floor.

Aliceanna Street Bridge (over Central avenue canal).—The bridge at this location was built in 1881, and consisted of 15-inch "I" beams with clear span of 23.5 feet, and wooden floor. In the reconstructed bridge the "I" beams are spaced 36 inches center to center. Expanded metal and concrete construction was used similar to that used at Lancaster street bridge in 1902, and described on page 83 of my report for that year, except that 48-½ rods 12 feet long and spaced 6 inches center to center were bent and used in place of the expanded metal for a width of four spaces (12 feet) along the south driveway next to the railroad tracks. The total width of the street is 70 feet. The B. & O. Railroad has a single track across this bridge and occupies a strip 7.2

feet wide in the center of the same. The two driveways on either side of the tracks are covered by the new structure for the full width of the street. The surface is paved with vitrified brick and the joints grouted with coal tar. The area paved is 1,710 square feet. The total cost of the work is $1,132.21. The cost per square foot of roadway is 66 cents.

It might be well to record here that the "I" beams next to the railway tracks were so badly rusted from sewer gas that they had to be taken out. The ends of the beams on the wall were held in position by a 9-inch brick face wall laid up in cement mortar between them. The ends of the beams back of this wall were also held in place by brickwork, but between these walls there was a void space of about 3 inches wide by 6 inches high, which would correspond very nearly to the conditions of the voids in the concrete next to the iron in ferro-concrete construction. These beams had been in position twenty-two years, and while the iron over the canal was covered with scale one-qnarter inch thick and badly pitted, the ends of the beams in the brick wall and in the void spaces had no scale or rust, and apparently were in as good condition as when they were put in the bridge. From this it would seem that there is little danger of iron rusting in ferro-concrete work.

Canton Avenue Bridge (over Central Avenue Canal).—This bridge was built in 1882, and consisted of 15-inch "I" beams spaced 37 inches center to center and resting on vertical side walls 23.5 feet face to face. The south half of the bridge is covered by the tracks of the P., W. & B. Ry., and is maintained by the railway company. The portion from the north track to the mouth of Central avenue sewer was reconstructed. The "I" beams were covered with heavy scale caused by the sewer gas. These beams were thoroughly cleaned and covered with coal tar. Two extra 15-inch "I" beams were put in near the mouth of the sewer and the whole area covered with expanded metal and concrete construction

similar to that used on Lancaster street bridge, and described on page 83 of my report of 1902, except that no portion of the space was reserved for sidewalks. On account of the "I" beams being weakened by rusting, the second to ninth "I" beams north from the railroad track were strengthened by ¾-inch steel rods on either side of the beams. The outer ends of the rods come directly under the upper flange and are bent to within one inch of the lower flange at the center of the beam. The entire area of the bridge (916 square feet) was paved with vitrified brick (Metropolitan blocks) and the joints grouted with coal tar. The total cost was $672.91, making the cost per square foot 73.5 cents.

Union Avenue Bridge (over Jones' Falls).—The abutments of this bridge were about 9 feet shorter than the width of the bridge, and plank walks carried on trestle work extended from the footways on the bridge from 30 to 50 feet from each corner of the bridge. In order to do away with these wooden footways and also to reinforce the old stone abutments concrete wing walls were built at all four corners of the bridge. The one at the southeast corner is on the prolongation of the face of the east abutment. At the other three corners the new concrete walls were built out to the full width of the bridge, and then run back parallel to the roadway. The walls were brought up to the level of the roadway and the space between the old and the new walls was filled in and the footways covered with cinders. Steel rods were set vertically in the walls except at the southeast corner. The concrete was mixed in the proportion of Portland cement 1, stone dust and screenings 2½, crushed stone 5. The north end of the west abutment was undermined by the current so that the wall was badly cracked. This was underpinned and protected with concrete. On each of the three return walls iron hand-rails 24 feet long were built with the posts imbedded in the concrete walls. A part of the iron work was cleaned and the footways were repaired. The cost of the work was: Labor, $610.85; material, $537.45; total, $1,148.30. The total

amount of concrete was 145 cubic yards, and the cost of the same was $1,015.51, which gives $7 as the cost per cubic yard.

Argyle Avenue Bridge.—This old bridge, built in 1877 over the B. and P. Ry., should be replaced by a permanent structure. The average cost per year to maintain this bridge for the six years prior to 1903, has been $482.21 per year, which, capitalized at 4 per cent, would give over $12,000 as the amount which could be used to replace it with a new structure. This amount does not include the cost of renewing the iron bridge, which would be added to this amount. The iron is so badly pitted by rust and the bridge is of such light construction that it would not now be safe on a street with heavy traffic. As the bridge is but little used it would probably be safe to stand until the new floor laid this year is worn out, but should then be rebuilt. The bridge was painted in 1897-98 and had a new roadway floor in 1898. The floor and part of the stringers were entirely rotten and were removed. The iron work was then cleaned and painted with two coats of Princess metallic brown. About 100 of the old stringers and 35 old ones from Chase street bridge were laid so as to give the bridge a crown of 4 inches in the center, and a new single 3-inch floor was laid on the roadway. The cost of removing the old floor and laying the new one was $137.06 for labor and $316.00 for new lumber and nails. The amount of new lumber used was 11,800 feet B. M., and amount of old relaid was 6,800 feet B. M., making a total of 18,600 feet B. M. The cost of labor for removing the old floor and laying the new is $7.32 per 1,000 feet B. M. of the new floor. The area of the roadway is 4,134 square feet, so that the cost for the labor of removing the old floor and laying the new is 3.31 cents per square foot; and the cost of the new lumber and nails is 7.64 cents per square foot. The total area of iron to be cleaned and painted is 13,434 square feet. The cost for scaffolding and cleaning was 2.22 cents per square foot, the cost of labor painting two coats was .7 of one cent per square foot, and the cost of paint, etc., 0.29 cents per square foot.

Hillen Street Bridge.—The roadway floors and stringers were rotten and the street railway company proposed to lay a new 9-inch girder rail on 12-inch x 12-inch stringers so that it was necessary to entirely remodel the floor of both driveways. The question having been raised as to whether the city should maintain the floor between the tracks and two feet outside of the railway company under the provisions of Ordinance No. 100 of 1881 and Ordinance No. 7 of 1863, it was decided that the city should furnish the lumber and clean and paint the iron work and that the railway should lay its tracks and the floor, and that the expense of the portion of the floor between the tracks and two feet outside should later be adjusted so that the expense should be borne by the proper party. New stringers and two floors were laid and so arranged that the floor from the track to the footway has a fall of 3 inches and scupper holes are left to allow the dirt and water to run off. The work was completed on January 17, 1903. Under the above arrangement the cost to the city was $562.29.

Beech Avenue Bridge.—The old wood king truss bridge 400 feet west of Slingluff avenue was in bad condition, and was replaced by a ferro-concrete box culvert. The clear span of the old bridge was 15.3 feet, the width of the bridge was 16 feet, and the height of the floor above the bottom of the stream was 10 feet. The new culvert is 40 inches square on the inside, with the bottom dished 4½ inches in the center, giving an area of 13.6 square feet. The culvert was built from building line to building line of Beech avenue, and is on a skew of about 60 degrees with the street, so that the total length of the culvert is 77.8 feet. The walls, cover and bottom are of concrete 6 inches thick, reinforced by ½-inch steel rods, spaced 10 inches center to center, and laid 2 inches from the inside service of the culvert. The concrete was made of Alpha Portland cement 1, sand 3 and broken stone 5 parts. The cost of the culvert, including excavation for foundation, diversion of small stream, forms and all materials

and work except making fill over culvert is $5.44 per lineal foot. About 360 cubic yards of rotten rock and earth were filled in over the culvert and some broken stone put on the traveled way.

Centre Street Bridge.—The street railway company removed their tracks from this bridge in October, 1902, and left the roadway floors in bad condition. The plank and stringers were rotten and were removed, the iron work cleaned and painted with two coats of Etna iron paint. The bridge floor was shortened about five feet by building small concrete walls near the face of the bridge seat, filling in back of them and paving the spaces with stone. The stringers and two floors of both roadways were renewed by using the best of old lumber taken from Block street, Eastern avenue and Chase street bridges. The stringers were so laid as to give the floor a fall of four inches from the centre truss to the side of the roadway. The lower rail of the wire panel handrail in a number of places was entirely rusted through. These were repaired by bolting small angle irons on either side of the panel.

South Monroe Street Bridge.—This bridge was built in 1891, and the footways which had only slight repairs in this time were entirely removed and relaid with new stringers and floor. The amount of lumber used was 12,240 feet B. M., and the cost of tearing out the old material and laying the new was $7.82 per 1,000 feet B. M. of the new lumber.

Old Liberty Road Bridge (west of Slingluff avenue).—The old bridge over Peck's branch was a three-truss King bridge with single plank floor. The clear span between vertical stone abutment walls is 23 feet, and the width of the bridge is 33.4 feet. The old trusses were replaced by 12-15 inch "I" beams taken from the approach to Merryman's lane bridge. The "I" beams are spaced 36 inches centre to centre and the ends held in place by concrete between the beams on the walls. On top of the "I" beams a slab of concrete with

an average thickness of 6¾ inches was laid. The concrete is reinforced by ½ inch rods laid 6 inches center to centre one inch above the "I" beams. A layer of cement mortar one inch thick was laid on the forms which were flush with the top of the "I" beams, and on this the rods were laid and the concrete filled in and thoroughly rammed. The concrete was mixed in the proportions of Alpha Portland cement 1, sand 3, broken stone 5. After the concrete had set the slab was covered with 4 inches of earth and the roadway was covered with 6 inches of macadam. The amount of concrete is 20.37 cubic yards. The area of the bridge floor is 856 square feet. The total cost of the improvement was 50 cents per square foot.

The cost of the different items is given below. The cost of the labor for tearing out old bridge was not kept separate from that on centres and concrete.

Items.	Costs.	Per Cent of total.	Cost Per Sq. Ft.
Lumber for centers	$16 49	03	$ .02
Hauling "I" beams, etc	27 00	07	.03
Iron for ferro-concrete	22 36	.05	03
Sand for ferro-concrete	24 24	06	.03
Stone for ferro-concrete	34 46	08	.04
Cement for ferro-concrete	79 20	19	.09
Stone for macadam	31 90	08	.04
Total labor	186 59	44	22
Totals	$422 24	100	$ .50

Old Liberty Road Culvert.—This is a small culvert about 550 feet west of Slingluff avenue. The length of the culvert is 31.7 feet with vertical side walls 4.3 feet face to face. The wooden floor 6.2 feet wide was removed and replaced by a ferro-concrete slab 0.6 feet thick at the centre and 0.5 feet at the sides. The concrete is reinforced by ½ inch rods one inch from bottom and 6 inches centre to centre. The concrete was mixed as in foregoing bridge. The slab was covered with earth and macadam. Total area 196.3 square feet. Cost $75.99. Cost per square foot 39 cents.

Lancaster Street Bridge.—The work done on this bridge is fully described on pages 83-85 of my report for 1902. The reconstruction was completed early in January, 1903. The total cost per square foot is 77⅓ cents.

Canton Avenue Bridge.—The entire floor and stringers were removed and the floor beams were cleaned and painted. Beveled strips were laid on the floor beams so as to give the floor a fall of 3 inches from the center to either side. The old stringers and bottom floor were then relaid and a new 3-inch top floor laid.

Friendship Street Culvert.—This culvert has vertical stone side walls 6 feet face to face. The old plank floor was removed, the walls extended 5.5 feet northward to the north side of the street, making the total length of the culvert 31.4 feet. The floor was then replaced by flagstones from 6 to 12 inches thick and this covered with 6 inches of cinders and 6 inches of broken stone. The total area of the flagstones is 272 square feet. The total cost of the work done, including the extension of the walls, was $213.66 or 78.5 cents per square foot of surface covered. The cost of the flagstones was 25 cents per square foot.

Reese Street Bridge.—This bridge has vertical masonry side walls 25.4 feet long, 7 feet face to face, 5 feet high and on a skew of about 8 feet. The old wood floor was removed and replaced by a concrete slab 9 inches thick, reinforced by steel rods. One-inch rods 9 feet long were laid one inch from the bottom of the concrete at right angles to the face walls and spaced 12 inches center to center. At right angles to these, three ½-inch steel rods were laid in the center of the span and spaced 12 inches center to center. A coping 6 inches high and 9 inches wide was built at each side of the bridge. The slab is covered with cinders and 6 inches of crushed stone. The total cost of the work was as follows:

Items.	Total cost.	Per cent.
Steel in concrete	$ 19 25	15
Hauling material and tools	3 00	02
Sand	12 00	08
Cement	24 15	18
Crushed stone	15 75	13
Cinders	2 00	02
Labor	54 88	42
Total	$131 03	100

The amount of concrete is small, being only 6.56 cubic yards, making the cost $19.97 per cubic yard. The area of the floor replaced is 260 feet, which gives 50 cents per square foot as the cost of the permanent floor. From this it will be seen that while the cost of the ferro-concrete per cubic yard is very high, still on account of the small amount required the cost per square foot of floor is low. The high cost per cubic yard is of course greater for small work than for larger work, so that the advantage is greater in large work. The advantages of ferro-concrete work for permanent bridge and culvert floors is the smaller weight of the material required, the smaller amount of space required and the ease with which it can be adapted to almost any required conditions of construction.

Maryland Avenue Bridge.—The floor on the east side of the bridge over Jones' Falls was entirely removed and portions of the floor beams cleaned and painted by city labor. The United Railways and Electric Company removed the old 4½-inch rails and old stringers and renewed the latter by new 12x12-inch stringers and the former by new 9-inch girder rails. The city then relaid the best of the old stringers and a few new ones, laid a new 2-inch bottom floor and relaid the top floor of old 3-inch plank from Chase street bridge. Both floors between the tracks were of entirely new lumber. The cost of the driveway east of the tracks was $242.66, which was charged to Bridges. The cost of the work between the tracks and 2 feet outside was $305.74, which was charged to Private Paving and Inspection. The amount of the bill rendered the

railway company on November 23, together with 10 per cent. for supervision and use of tools, and for penalty as provided in Ordinance No. 100, of 1898, was $356.31. The payment of this bill and others for work on bridges between tracks of the railway company is to be decided by the courts.

Repairs were made to the floors along the tracks on four other bridges and charged to Private Paving and Inspection, the payment of which is also to be decided by the courts, viz.:

Fayette Street Bridge, repaired August, 1903, amount.....	$ 57 45
Falls Road Bridge, repaired August, 1903, amount.....	127 37
Light Street Bridge, repaired August, 1903, amount.....	70 82
Edmondson Avenue Bridge, repaired Sept, 1903, amount.....	38 72
	$294 36

Minor repairs were made to twenty-two other bridges and culverts, as shown on the accompanying table.

Pratt Street Bridge.—The United Railways and Electric Company and the Baltimore and Ohio Railway desired to renew the old rails on this bridge with new 9-inch girder rails of the grooved pattern. The Belgian block pavement, old rails and old asphalt sub-base were removed to the level of the top of the buckle plates, and this surface covered with a heavy coat of coal tar. The new rails were laid and imbedded in concrete, which was brought up to within about four inches of the top of the rail. The concrete was then covered with a heavy coat of coal tar, and on this 4-inch creo-resinate wood blocks laid instead of the Belgian blocks, which were removed.

On November 6, 1903, a Baltimore and Ohio box car was derailed and pushed with such force as to break two vertical posts near the centre of the south truss, and to bend and break some of the tie rods. This truss was blocked up and is being repaired by the railway company without interruption to travel over the bridge.

BALTIMORE STREET BRIDGE.—The United Railways and Electric Company renewed the old rails on this bridge with new 9-inch girder rails, changing the alignment at the west end of the bridge to the northward and carrying the rails at this end on short supplementary beams. The concrete on which the small Belgian block pavement is laid was covered with coal tar and the blocks poured with the same material.

The following table gives the cost of labor and material and general character of work done on each bridge:

	Labor.	Material.	Total.
Aliceanna street and Central avenue bridge—			
Ferro-concrete	$ 439 19	$ 693 02	$1,132 21
Argyle avenue bridge—			
New single floor	137 06	316 00	
Cleaning	297 89	.....	
Painting (Princess metallic)	92 38	38 83	
	$ 527 33	$ 354 83	882 16
Bath street bridge—			
Repairs to roadway	3 00	4 18	
Repairs to handrail	30 00	.....	
Relaying roadway floor with lumber taken up from Chase street bridge	78 69	2 80	
	$ 111 69	$ 6 98	118 67
Beech avenue bridge—			
Unpaid bill from 1901	.....	1 02	1 02
Beech avenue culvert—			
Ferro-concrete culvert	210 27	212 75	
Earth fill	146 82	.....	
	$ 357 09	$ 212 75	569 84
Biddle street bridge—			
Cleaning	800 22	1 02	
Painting (Princess metallic)	339 94	157 10	
	$1,140 16	$ 158 12	1,298 28

	Labor.	Material.	Total.
Block street bridge—			
Supplies	.....	$ 70 36	
Repairs to machinery	$ 9 47	13 41	
New roadway floor	277 77	1,124 95	
Fender piles	135 94	228 80	
Covering engine house roof	.....	25 00	
	$ 423 18	$1,462 52	$1,885 70
Calverton road bridge—			
Concrete arch	$1,530 38	$1,389 93	2,920 31
Canton avenue bridge—			
New roadway floor	$ 97 10	$250 94	
Repairs to footway	2 09	4 76	
	$ 99 19	$ 255 70	354 89
Canton avenue and Central avenue bridge—			
Ferro-concrete	$ 284 34	$ 388 57	672 91
Cedar avenue bridge—			
Repairs to roadway floor	$ 17 00	.....	17 00
Centre street bridge—			
Repairs to roadway	$ 2 50	.....	
Relaying roadway floor and stringers with old lumber	343 55	11 40	
Cleaning	54 51	.....	
Painting (Etna)	48 12	14 00	
Concrete mud walls	10 00	26 02	
Repairs to handrail	12 00	.....	
	$ 470 68	$ 51 42	522 10
Chase street bridge—			
Repairs to handrail	$ 6 09	.....	
Repairs to roadway floor	14 59	.....	
Tearing out old floor, new creo-resinate wood roadway and stringers	608 65	4,025 52	
Cleaning below floor	144 50	1 00	
Painting below floor (Princess metallic)	64 06	18 17	
Painting truss, etc	259 59	1 22	
Painting truss, etc., (Carrara)	191 26	76 76	
Repairs to footway	27 04	2 50	
	$1,315 78	$4,125 17	5,440 95

	Labor.	Material.	Total.
Clipper Mill bridge—			
Repairs	$ 10 67		$ 10 67
Columbia avenue bridge—			
Repairs to footway	$ 2 09	$ 4 36	6 45
Dead Run bridge—			
Unpaid bill for 1901		$ 30 67	30 67
Eager street bridge—			
Repairs to footway	$ 3 25		3 25
Eastern avenue bridge—			
Repairs to roadway	$ 4 58		
Repairs to footway	5 00	10 73	
Painting (Etna)	10 00	6 40	
New creo-resinate wood roadway and stringers	404 53	1,836 95	
	$ 424 11	$1,854 08	2,278 19
Edmondson avenue bridge (over Gwynn's Falls)—			
Making survey	$ 9 17		9 17
Falls road bridge—			
Putting in "I" beams and repairs	$ 12 16		12 16
Fayette street bridge—			
Repairs to roadway	$ 7 63		7 63
Friendship street bridge—			
Rebuilding	$ 106 97	$ 106 69	213 66
Guilford avenue bridge—			
Repairs to footway	$ 4 66	$ 9 29	13 95
Hillen street bridge—			
New roadway floor, both sides	$ 59 50	$ 502 79	562 29
Jenkins lane bridge—			
Repairs to roadway	$ 7 42		7 42
Kate avenue bridge—			
Repairs	$ 4 01		4 01

	Labor.	Material.	Total.
Lancaster street and Central avenue bridge (completed)—			
Ferro-concrete and vitrified brick floor	$ 81 39	$ 329 88	$ 411 27
Leadenhall street and Stockholm street bridge—			
Repairs to roadway	$ 10 00		10 00
Lexington street bridge (over Gwynn's run)—			
Repairs	$ 2 83		2 83
Lombard street bridge—			
Repairs to footway	$ 2 50	$ 5 57	8 07
Madison street bridge (not completed)—			
Repairs to roadway	$ 8 75	$ 14 56	
Removing old floor and unloading lumber	118 04		
New treated lumber and paving blocks		1,400 64	
	$ 126 79	$1,415 20	1,541 99
Maryland avenue bridge—			
Repairs to floor	$ 5 42	$ 26 65	
Repairs to footway	84		
New floor, east side	134 10	75 65	
	$ 140 36	$ 102 30	242 66
Merryman's lane bridge—			
Building wing wall and foot wall	$ 293 25	$ 463. 45	
Excavation and hauling	52 96		
Underpinning and pointing up old east abutment	92 27	30 35	
Tearing out old approach	20 80		
1,718.5 cu. yds. earth fill at 40 c	687 40		
Handrail on fill	20 00		
New double roadway floor	77 96	242 70	
	$1,244 64	$ 736 50	1,981 14

	Labor.	Material.	Total.
Monroe street, north, bridge—			
Repairs to footway	$ 1 00	.....	$ 1 00
Monroe street, south, bridge—			
New footway	$ 95 73	$ 318 54	
Repairs to handrail sill, east side	25 49	13 96	
	$ 121 22	$ 332 50	453 72
Monroe street, south, culvert—			
Repairs	$ 11 67	$ 6 02	17 69
Mount Vernon avenue viaduct—			
Tearing out old work	$ 160 40	.....	
New roadway, footway and stringers	591 16	3,012 78	
Masonry	94 04	67 95	
Watchman	248 15	.....	
Painting (Etna and Princess metallic)	301 83	126 32	
Scraping and scaffolding	916 41	2 00	
Concrete around columns	11 67	7 65	
Repairs to truss	9 00	19 00	
Wire panel handrail	.....	1,536 15	
Crib work and filling in approaches	22 38	12 25	
Rebuilding pedestal and repairs to abutment	96 24	72 09	
Filling washout	48 12	.....	
	$2,499 40	$4,856 19	$7,355 59
Nanticoke street and Stockholm street bridge—			
New floor	$ 5 00	$ 5 71	10 71
Old Liberty road bridge—			
Rebuilding ferro-concrete	$ 206 92	$ 176 75	
Macadam	6 67	31 90	
	$ 213 59	$ 208 65	422 24
Old Liberty road culvert—			
Rebuilding ferro-concrete	$ 33 00	$ 36 34	
Macadam	1 67	4 98	
	$ 34 67	$ 41 32	75 99

	Labor.	Material.	Total.
Philadelphia road bridge—			
Repairs to roadway floor	$ 10 00	$ 51 39	$ 61 39
Preston street bridge—			
Repairs to footway	$ 2 59	$ 8 04	10 63
Ramsay street bridge —			
Repairs to wall	$ 16 50	$ 22 78	39 28
Reese street bridge—			
Ferro-concrete floor	$ 58 63	$ 72 40	131 03
St. Paul street bridge—			
Repairs to plates under bottom end	$ 5 25		
Repairs to roadway	2 83		
	$ 8 08		$ 8 08
Slingluff avenue bridge (south of North avenue)—			
Repairs to roadway	$ 63		63
Union avenue bridge (over Jones' Falls)—			
Rebuilding wing walls	$ 564 76	$ 450 75	
Handrail and repairs	46 09	86 70	
	$ 610 85	$ 537 45	1,148 30
Union avenue culvert (over mill race)—			
Ferro-concrete culvert	$ 1,326 44	$ 1,184 28	2,510 72
Wilkens avenue bridge—			
Repairs to footway	$ 1 25		1 25
Miscellaneous bridges—			
Blacksmith, tools, oil, etc	$ 28 27	$ 91 54	119 81

Total labor, $13,925.95; total material, $21,615.63; grand total, $35,541.58.

The most important work needing attention in the near future is the replacing of the high wooden bridge on Edmondson avenue, over Gwynn's Falls, by a permanent structure. The Western Maryland Railroad has completed a new channel for Gwynn's Falls, diverting the stream from its old location under the middle span of the bridge to the new location under the east span, and has about completed the grading of the roadbed under the centre span. These new conditions make the problem of a new permanent structure more difficult than it was. Plans have been under consideration for some time to build an arch or arches to replace this bridge and fill in the roadway with earth to grade. The old wooden bridge on West Lexington street over Gwynn's Run is to be replaced during the year by a permanent structure and extended to the north building line of the street. Several of the smaller bridges in the Annex are to be replaced by permanent structures as fast as their condition requires renewal. A small amount of work has been done in tracing the bridge plans, which are on manilla paper. Under permit No. 24,527, dated September 3, 1903, the Northern Central Railway Company was authorized to carry power wires under the footway on St. Paul street bridge on condition that they keep the portion of the bridge above the same painted.

LIGHT STREET DRAWBRIDGE.

This bridge is 4,545 feet long from end to end. The north approach is 631.5 feet long, the draw span 219.1 feet and the south approach 3,694.4 feet. The total width is 30 feet out to out, and the distance from the east rail of the street railway track, which crosses the bridge, to the east handrail is 16 feet. This gives 69,216 square feet as the area of the driveway outside the railway tracks and exclusive of the draw.

The method of making renewals to the floor has been to begin at the south end of the bridge and renew such portion of the floor as was worn out at that time. The next year to begin at this point and continue as far as it is worn out at that time and so on until the entire floor has been renewed and then begin at the south end again, other slight repairs being made from time to time as needed. In 1897 new work was begun at the south end and the entire bridge completed in 1899. In 1900 the top floor laid in 1897 was entirely worn out and a new top floor was begun. During this year this floor has been completed. From this it will be seen that the life of the top floor laid in 1897 was three years, while that laid in 1899 was four years. This is due principally to the raising of the wheel guard rail in 1900 so as to allow the water to run off and a large part of the dirt, which formerly accumulated and held the moisture, to blow off. The average cost of maintaining the top floor in 1897 to 1899, inclusive was $1,883.78 per year, and from 1900 to 1903, inclusive, was $1,490.19, a saving of $393.59 per year on the life of the floor alone; in addition to this there is a saving in sweeping the bridge of about $150.00 per year, and a saving in sawing of plank of about $20.00 per year; or a total of $580.00 per year.

An attempt has been made to keep a record of the tonnage of the different kinds of merchandise passing through the draw and over the bridge. As there was no law to compel owners of vessels and others to give the amount of merchandise carried, a considerable part had to be estimated, and while it is realized that the figures are not accurate, still they are close approximations to the truth. The discrepancies in the travel over the bridge as reported in 1901 and 1902 raised a doubt as to the care with which this account was kept and one of the bridge tenders was required to keep this account during this year and it is believed that the figures given below are correct.

The repairs to the trestle work under the approaches has been completed and the footway on the west side put in good order. The fenders around the draw pier have been repaired and partly renewed. The tool house has been enlarged. About 40 new handrail posts have been put in and others will be put in this year. Slight repairs have been made to the engines and machinery, and they are in good order. One boiler is in good order, but the other is old and in bad order. It should be replaced by a new 25-horse power vertical boiler of modern make. The keeper's house has been repaired, new mud sills put in, new shingle roof put on back building and new floor laid in yard.

The most important change made was the opening and sheathing of a new launchway for small boats, under the north approach just north of the draw. This passageway is 12.2 feet wide and 9 feet high at high water, thus relieving the draw of opening for many small launches. The telephone company have removed a few of their poles from the trestle work, and should remove all of them, as they are doing damage to the bridge.

The following table gives the travel across the bridge and through the draw:

Travel Across Bridge.		Travel Through Draw.	
Double teams	84,621	Tugs	6,899
Single teams	90,010	Scows	3,065
Street cars	77,506	Schooners	635
Mail cars	8,079	Sloops	538
Funerals	899	Steamers	509
		Rafts	24

The total number of times that the draw was opened was 7,924.

The total tonnage passing over the bridge was 51,883. The total passing through the draw was 504,302.

The principal items of this traffic were as follows:

Tonnage Across Bridge.		Tonnage Through Draw.	
Vegetables	12,175	Mud	384,766
Manure	9,018	Coal	45,846
Boxes	4,397	Lumber	16,744
Groceries	3,935	Brick	12,140
Feed	3,610	Ice	8,758
Wood	3,298	Wood	7.237
Beer	2,526	Oil	6,783
Lumber	2,153	Marble	5,498
Barrels	1,866	Garbage	4,862
Ice	1,049	Fertilizer	4,835
Slops	1,130	Manure	2,633
Sundries	6,726	Sundries	4,200
Total	51,883	Total	504,302

EXPENDITURES.

Items.	Labor.	Material.
Engineer and bridge tenders	$3,245 26	
Coal, $155 51; hardware, oil, etc.		$ 266 50
Repairs and renewal of roadway floor.	207 71	
Repairs and renewal of footway floor.	61 67	29 32
Repairs to trestle work	135 46	
Repairs to machinery and boilers	48 44	61 05
Repairs to buildings	93 08	146 46
Repairs to handrail	126 63	25 13
Fenders around draw pier	169 04	
Lumber piers	125 97	7 32
Sweeping bridge	129 53	
New lumber (not yet used)		2,297 66
Cleaning and painting draw span	423 56	55 60
Ferry Bar footway, north of bridge	92 23	18 00
Launchway north of draw	32 41	72 33
	$4,890 99	$2,979 37
Total expenditures		$7,870 36

MAINTENANCE OF BLOCK STREET DRAWBRIDGE.

The amount of the appropriation for this fund is $1,350, which is for the salaries of the keeper and assistant keeper of the bridge. The cost of repairs and renewals is charged to the Maintenance of Bridges and Culverts, and is reported

under that head. The number of times the draw was opened for vessels during the year was 10,615, an average of 34 per day. The number of teams passing over the bridge on week-days was 147,906, an average of 476 per day. These figures are from daily count of the keeper and assistant keeper for 310 week-days.

RECAPITULATION.

The following summary of the foregoing detailed statements brings together the totals spent for improved pavements, bridges, etc., and the amounts spent out of the various appropriations under my direction:

IMPROVED PAVEMENTS.

Charged to Ordinance of Estimates of 1902		$ 69,276 46
Charged to Assessments against property owners		30,236 51
Charged to Cross Streets, 1903		4,586 87
Charged to Cross Streets (Special)		323 58
Charged to City Property, 1903		901 29
Charged to Private Paving and Inspection		510 76
Charged to the United Railways and Electric Company		943 36
Total for improved pavements, 1903	$106,778.83	
Cobblestone Pavements charged to Assessments		6,077 55

BRIDGES AND CULVERTS.

Maintenance of Bridges and Culverts, Ordinance of Estimates		34,060 00
Maintenance of Bridges and Culverts, Contingent Fund		1,481 58
Maintenance of Light Street Bridge		7,870 36
Maintenance of Block Street Bridge		1 350 00
Total for bridges and culverts, 1903	$44,762.04	
Cross Streets (besides for improved pavements)		2,464 59
Roads, Streets, etc		1,255 72
City Property (besides for improved pavements)		883 08
City Property (special)		2,223 22
Grading 29th Street		364 00
Private Paving and Inspection (repairs, etc.)		742 66
Paving Certificates and Interest		548 97
Salaries		8,414 34
Incidentals		49 40
		$174,564 30

GRADE ESTABLISHMENTS DURING 1903.

The amount of work on establishing grades under Ordinance No. 83, approved December 8, 1900, has been only about half the amount done during the previous year. The reason for this is that whenever an application is made to build, this office establishes the grade of the street for several blocks. In this way the number of streets on which the grades have not been established is decreasing from year to year. The total length of streets on which the grades of both kerb lines have been established during the year is 70,343 feet or 13.32 miles. The following table gives a list of the streets on which grades were established during the year:

Street.	From.	To.
Alley	east of Thomas ave	north of Liberty road.
Baltimore	Eutaw st	Charles st.
Bank	Broadway	Exeter st.
Belleview	Garrison ave	Western city limits.
Belvedere	Belleview st	Northern city limits.
Biddle	Somerset st	Bond st.
Calhoun	Saratoga st	Franklin st.
Culver	Old Frederick road	Dorsey's lane.
Dellwood	Falls road	Conduit ave.
Durham	Monument st	Chase st.
Elder alley	Biddle st	Orchard st.
Frederick	Pratt st	Gay st.
Fillmore	Independence st	Montebello ave.
Fayette	Greene st	Little Sharp st.
Front	High st	Lombard st.
Greene	Franklin st	Columbia ave.
Harford	Forrest st	Chase st.
Hoffman	Bond st	Broadway.
High	Eastern ave	Hillen st.
Independence	Gorsuch ave	Friendship st.
Jefferson	Tinges' lane	Montebello ave.
Lansdowne	Monroe st	Fulton ave.
Lafayette ave	Pulaski st	Bloomingdale road.
Lovegrove alley	North ave	Twenty-sixth st.
Liberty	Gorsuch ave	Madison st.
Merryman's lane	Charles st	Roland ave.

Street.	From.	To.
Madison	Republic st	Montebello ave.
McKean	North ave	Clifton ave.
Moore	Madison ave	Tessier st.
Monroe	North ave	Northwest st.
Monroe	Presbury st	Northwest st. (re-est.)
Northwest	Monroe st	Friendsbury st. (re-est.)
Old Pimlico road	Park Heights ave	Northern city limits.
Potomac	Boston st	Fait ave.
Payson	Clifton ave	Northwest st.
Presbury	Fulton ave	Friendsbury st.
Poplar	Tenth st	Eleventh st.
Raborg	Fremont ave	Stockton st.
Republic	Gorsuch ave	Madison st.
Roland ave	Merryman's lane	Northern city limits.
Rutter	Pennsylvania R R	Lafayette ave.
Stockton	Wicomico st	Nanticoke st.
Stafford	Caton ave	Eighth st.
Saratoga	Carrollton ave	Gilmor st.
Smallwood	Walbrook ave	North ave.
Sherman Place	North ave	Girard ave.
Talbot	Wilson st	alley north.
Townsend	Washington st	Wolfe st.
Twenty-second	Cromwell st	Jenkins' lane.
Wicomico	Stockholm st	Scott st.
Walbrook ave	Smallwood st	Bentalou st.
Wilhelm	Smallwood st	Fulton ave.
York	Light st	Battery ave.

Total: 70,343 feet, or 13.32 miles.

CEMENT TESTS DURING 1903.

Cement tests have been made from time to time by one of the assistants in my office. Tests have been made of 15 different brands and 203 briquetts have been broken. The requirements for tensile strength per square inch of section is shown below. For one day tests the sample is in air for 24 hours. For all other tests the sample is in air for 24 hours, and in water the balance of the time. Crushed quartz is used for sand tests.

Natural Cement—	One Day.	Seven Days.	Twenty-eight Days.
Neat	80 lbs.	150 lbs.	220 lbs.
1 cement, 2 sand	.....	80 lbs.	150 lbs.
Portland Cement—			
Neat	200 lbs.	400 lbs.	500 lbs.
1 cement, 3 sand	.....	150 lbs.	200 lbs.

SUMMARY OF CEMENT TESTS.

Name of Brand.	Proportions.	Age, Days.	Tensile Strength.	No. Bricks.	Max.	Min.
Krause	Neat	7	451	5	522	383
Krause	1—2	7	161	5	201	118
Reading	Neat	7	596	5	632	470
Reading	1—2	7	218	5	233	202
Dragon	Neat	1	303	5	336	302
Dragon	1—2	7	172	5	192	164
Cumberland & Potomac	1—2	7	86	5	98	78
Paragon	Neat	1	240	3	264	224
Atlas	Neat	1	443	15	527	348
Toltec	Neat	1	118	5	148	97
Toltec	1—2	7	120	5	130	99
Cumberland & Potomac	Neat	1	129	35	165	87
Cumberland & Potomac	1—2	7	103	4	117	85
Lehigh, Portland	Neat	1	348	5	375	326
Lehigh, Portland	1—2	7	263	5	284	242
Patapsco	Neat	1	191	3	275	170
Patapsco	1—2	7	163	5	177	138
Patapsco	Neat	1	133	3	138	128
Ulster	Neat	1	71	5	77	61
Phœnix	Neat	1	50	5	55	47
Nazareth	Neat	1	240	8	395	119
Nazareth	Neat	1	157	3	168	152
Vulcanite	Neat	1	280	5	310	261
Vulcanite	Neat	7	632	4	640	625
Alpha	Neat	1	184	11	245	195
Alpha	Neat	2	375	5	428	330
Alpha	Neat	3	504	5	538	478
Alpha	Neat	4	506	4	583	457
Alpha	Neat	5	535	5	550	522
Alpha	Neat	6	561	5	635	548
Alpha	1—2	7	275	5	312	254
Edison	Neat	1	101	5	128	80
Edison	Neat	7	414	5	453	383

GUARANTEED PAVEMENTS.

The guarantee on the sheet asphalt pavements on Mt. Royal avenue and Fulton avenue expired in October and December, respectively. These pavements were of Alcatraz asphalt, and were laid in 1898 at $1.52 and $1.54 per square yard respectively. No repairs due to defective material or workmanship were necessary on Mt. Royal avenue during this period of five years, and but slight repairs on Fulton avenue. The guarantee on Grant street expired in August, and on Clifton avenue and Thirteenth street in April. Other streets still under guarantee have been inspected from time to time and contractors notified to make repairs where necessary.

FOOTWAY NOTICES.

The usual footway reports have been received through the Police Department and notices sent out. In most cases the notices are promptly complied with. In some cases a second notice is sent out, and in a few cases the owners refuse or neglect to comply with the notices. In the latter case the work is done by the city and an assessment is sent to the City Collector. The total number of notices sent out was 3,829. Of these, 23 were not complied with and the work was done by the city; 266 were on request of the owner for new pavements, and the rest were sent out on reports from the Police Department.

OFFICE WORK.

The general office work was kept up to date. A new card catalogue of paving plats, bridge drawings and other plans, profiles, etc., and another of grade establishments, has been made. The records of the office have been improved, and new systems of indexing and filing letters and papers has been started. Many of the original maps, plats and bridge plans in this office are on unmounted drawing paper, and are in bad condition from age and handling and should be copied

on tracing cloth. Many of these are valuable records, frequently examined by the public and could not be replaced if destroyed.

Estimates have been made up, to pave sixty-one streets with improved pavements for members of the City Council. This covers 207 squares and amounts to a total of $1,074,666. This represents a considerable amount of work, as in some cases surveys and cross sections had to be made, and in all cases an inspection of the street.

Plans and detail drawings of the following bridges have been traced, viz: Pratt Street, Chase Street, Biddle Street, Block Street, Guilford Avenue, Madison Street, Cedar Avenue, Mt. Vernon Avenue, Bath Street, Centre Street and part of St. Paul street.

The following list shows the routine office work for the year, viz.:

53 grade establishments in duplicate.
108 profiles made.
12 sets specifications prepared.
10 street assessment sheets made up.
10 street assessment plats.
21 reports on damage suits.
891 letters written.
434 orders for material.
700 bills in triplicate checked and passed.
Numerous tracings and plans prepared.

In conclusion, I wish to acknowledge the faithful and efficient work which the assistants in my Department have rendered the city.

Respectfully submitted,

O. W. CONNET,
Assistant City Engineer.

REPORT OF

Newton M. Gray, Assistant City Engineer.

1903

CITY ENGINEER'S OFFICE,

BALTIMORE, January 1, 1904.

MR. B. T. FENDALL,
City Engineer:

SIR—I beg to submit the following report of the operations of the Sewer Division of the City Engineer's Department during the year ended December 31, 1903:

NEW SEWERS.

OGIER'S RUN, AND HARE STREET AND PATUXENT STREET LATERALS.

A full description of the form, dimensions and character of this sewer will be found in the City Engineer's Report for the year 1902. On account of the inefficiency of funds only a small amount of work was done during the year 1903.

Of the main sewer, 81 feet of invert and 164½ feet of arch were constructed, and a small amount of miscellaneous work was done on the Patuxent street lateral. Work was commenced March 4 and suspended on April 14, 1903.

Statement Showing Cost of Work.

Excavation, 342 cu. yds. at $1.00	$342 00
Concrete, including stone, cement, sand and labor, 308 cu. yds. at $5.08	1,564 64
Brick invert (bricks, sand, cement and labor), 255 sq. yds. at $1.94	494 70
Refilling, 2,669 cu. yds. at 10c	266 90
Terra-cotta pipe	156 80
Repairs to engine	69 64
Hardware, tools, hauling, etc	86 66

Patuxent street lateral (excav. pipe, etc)		$ 922 03
Incidentals, such as digging ditch for outlet, temporary inlet, pumping, dams, etc		129 33
Foreman		150 00
Watchman		82 00
		$4,264 70
Sewer pipe hauled to yard	$390 48	
Material left on ground, broken stone, etc	92 50	
		482 98
Total cost of work and materials in 1903		$4,747 68
Charges—		
Improvements in and Additions to Drainage System, appropriation of 1903		$4,326 81
Repairs of Sewers, appropriation of 1903		420 87
		$4,747 68

SEWER IN TWENTY-NINTH STREET AND HUDSON ALLEY.

This sewer, which will form a part of the proposed Sumwalt Run sewer, is designed to carry Twenty-ninth street over Sumwalt Run at a point 150 west of Maryland avenue. It is circular in form, 8 feet 6 inches in diameter, and is built entirely of concrete, with the exception of the invert, which is lined with vitrified bricks in the lower portion, and with hard red bricks in the upper portions to the height of the springing lines of the arch. Substantial wing-walls, faced with point dressed stone, were constructed at the north end of this sewer, which faces the proposed Wyman's Park, and ordinary rubblestone wing-walls were constructed at the south end. The total length of this sewer is $164\frac{3}{10}$ feet. Work was commenced on December 8, 1902, and completed April 21, 1903.

Statement Showing Cost of Work.

Excavation, including refilling and covering arch, 375 cu. yds. at $1.67	$626 25
Concrete, including stone, cement, sand and labor, 472 cu. yds. at $5.47	2,581 84
Brick invert, including bricks, sand, cement and labor, 287 sq. yds. at $2.80	803 60

Rubble masonry (point dressed), including stone, cement, sand and labor, 36 $\frac{8}{10}$ cu. yds. at $9.88	$ 363 58
Rubble masonry (uncoursed), including cement, sand and labor, 33 cu. yds. at $4 24	139 92
Tearing down old culvert	50 00
Digging ditch for turning stream	46 53
Forms, centres, etc	193 26
Rental of concrete machine	181 66
Cast-iron inlet bend	37 78
Timber platform (south wings)	39 21
Hardware, tools, oils, hauling, etc	153 01
Foreman	418 50
Construction of dams, cement shed, runways, setting up and taking down machine, and other incidentals	325 97
Total cost of work	$5,961 11
Amount expended in 1902	$813 58
Amount expended in 1903	5,147 53
Total expenditure	$5,961 11

Charges—

Improvements in and Additions to Drainage System, appropriation of 1902	$813 58
Improvements in and Additions to Drainage System, appropriation of 1903	2,558 72
Appropriation for Grading and Curbing Twenty-ninth st.	700 00
Appropriation for Sumwalt Run Sewer	1,400 00
Repairs of Sewers, appropriation of 1903	479 72
Repairs of Sewers (special)	9 09
	$5,961 11

SEWER FOR SCHOOL HOUSE NO. 55.

This sewer, consisting of a 12-inch terra-cotta pipe, extends in Chestnut avenue, from Fourth avenue to Third avenue; thence in Third avenue, from Chestnut avenue to Sycamore street; thence in Sycamore street to Union avenue, and connects with the sewer known as the Union avenue sewer. The total length of this sewer is 4,175 feet. Work was commenced on July 27 and completed on September 22, 1903.

Statement Showing Cost of Work.

CUT AVERAGING 5 FEET IN DEPTH.

Excavation, including timbering and refilling, 661 cu. yds., at $0.86	$ 568 46	
Laying pipes (cement, sand and labor), 1,650 lin. ft., at $0.02	82 50	
		$ 650 96

CUT AVERAGING 10 FEET IN DEPTH.

Excavation, including timbering and refilling, 1,856 cu. yds., at $1.16	$ 2,152 96	
Laying pipes (cement, sand and labor), 2,525 lin. ft., at $0.06	151 50	
		2,304 46
Total 12-inch terra-cotta pipe, 420 lin. ft., at $0.32		1,318 40
12-inch cast-iron pipe, 1,014 lbs., at $23.40 per ton		11 86
Hauling		158 63
Hardware, tools, etc		106 45
Lumber		35 16
Incidentals		42 74
Foreman		381 50
Watchman		110 00
Total cost of work		$5,120 16

The cost of the above was billed against and paid by the Department of Inspector of Buildings.

SEWER FOR SCHOOL HOUSE No. 69.

This sewer, consisting of a 12-inch terra cotta pipe, extends in Walbrook avenue from Smallwood street to Payson street; thence in Payson street to Clifton avenue, and connects with the sewer known as the Clifton Avenue Sewer. The total length of this sewer is 1,308 feet. Work was commenced on June 15, 1903, and completed on September 24, 1903.

Statement Showing Cost of Work.

Excavation, including timbering and refilling, 1,586 cu. yds., at $1.16	$1,839 76
Laying pipe (cement, sand and labor) 1,308 lin. ft., at $0.20	261 60
12-inch terra cotta pipes, 1,300 lin. ft., at $0.31	403 00

Hauling	$ 105 50
Hardware, tools, &c.	95 87
Lumber	76 63
Incidentals	134 64
Foreman	379 50
Watchman	148 00
Total cost of work	$3,444 50
Appropriation from Contingent Fund	$4,251 50
Amount expended	3,444 50
Balance	$807 00

NEW INLETS TO EXISTING SEWERS.

Clement and Andre streets	$ 205 00
Lombard and Schroeder streets	943 13
Boyd and Schroeder streets	397 95
Fulton avenue and Evergreen terrace	360 93
West street and Creek alley	722 88
York and William streets	568 44
York street and Battery avenue	279 42
Hammond alley and Exeter street	101 00
Hammond alley and Albemarle street	102 13
Montford avenue and Gay street	431 63
Fairmount avenue and Grove alley	139 81
Calvert and Twenty-second streets	337 93
Stricker street and Riggs avenue	160 06
North and Mt. Royal avenues	226 87
North and Madison avenues	194 72
Howard and Dover streets	121 31
Race and West streets	282 26
North avenue and Peck's Branch	639 19
Light, near Pratt street	97 32
Light, near Camden street	127 49
Light, near Conway street	76 67
	$6,516 14

Charge to Widening North avenue	$ 639	19
Charged to Repairs of Sewers	5,564	98
Charged to Improvements in and Additions to Drainage System	311	97
	$6,516	14

NEW MANHOLE TO EXISTING SEWERS.

Alley, east of Garrett street, between Clement and Beason streets	$200 11
Lexington and Holliday streets	43 34
Lovegrove alley sewer (2)	99 66
	$343 11

Charged to Repairs of Sewers, 1903.

MANHOLES IN INLET COVERS.

Albemarle street and Hammond alley	2	Inlets.	$22 40
Exeter street and Hammond alley	2	"	22 40
Ramsay street and Fulton avenue	2	"	22 40
Carey and Franklin streets	1	"	11 20
Monroe and Eagle streets	3	"	33 60
Monroe and Ramsay streets	2	"	22 40
Monroe and McHenry streets	2	"	22 40
Monroe street and Wilkens avenue	2	"	22 40
West street and Creek alley	1	"	11 20
Baltimore street and Jones' Falls	1	"	10 30
Fairmount avenue and Grove street	1	"	11 20
Calvert and Twenty-second streets	1	"	9 40
Pratt and Sharp streets	1	"	11 20
Bond and Federal streets	3	"	37 60
Caroline and Federal streets	2	"	22 40
Broadway and Federal street	3	"	32 70
Hopkins avenue and Chase street	2	"	23 80
Schroeder and Lombard streets	1	"	11 20
Biddle street and Hopkins avenue	2	"	24 00
Madison and Caroline streets	3	"	28 70
Biddle and Caroline streets	1	"	2 00
			$414 90

Charged to Repairs of Sewers, 1903.

RECONSTRUCTION AND REPAIR.

JENKINS RUN SEWER.

Repairs were made in the sewer located in Carter alley, between Lanvale street and Guilford avenue, known as the "Jenkins Run Sewer," as follows: A section of the old

wooden floor, 386 feet in length and 8 feet in width, which had become worn out, was removed and replaced by a pavement of granite blocks laid in cement.

Cost of the above:

Granite blocks	$444 75
Cement and sand	226 35
Labor, superintendence and incidentals	1,440 07
	$2,111 17

Charges:

Repairs of Sewers, appropriation of 1902	$126 00
Repairs of Sewers, appropriation of 1903	1,985 17
	$2,111 17

CENTRE STREET SEWER.

The old worn-out wooden floor of the sewer in Centre street, between St. Paul and Davis streets, was cut out for a distance of 176 feet to the width (8 feet) of the sewer, and replaced by granite blocks, laid in cement, and the side walls and arch, for a distance of 203 feet, were pointed with cement.

Cost of the above:

Granite blocks	$207 30
Cement and sand	64 63
Labor, superintendence and incidentals	987 67
	$1,259 60

Charges:

Repairs of Sewers, appropriation of 1902	$126 00
Repairs of Sewers, appropriation of 1903	1,133 60
	$1,259 60

LOVEGROVE ALLEY SEWER.

The wooden floor of the sewer in Twenty-first street, between St. Paul street and Lovegrove alley, and in Lovegrove alley, south of Twenty-first street, was cut out for a distance of 428 feet and replaced by granite blocks laid in cement.

Cost of the above:

Granite blocks	$391 75
Cement and sand	179 13
Labor, superintendence and incidentals	1,876 00
	$2,446 88

Charges:

Repairs of Sewers, appropriation of 1902	$126 00
Repairs of Sewers, appropriation of 1903	2,320 88
	$2,446 88

CENTRAL AVENUE SEWER.

The old cobblestone pavement in Central avenue sewer, between Granby and Lombard streets, having been found to be in need of extensive repairs, a section of the same, 154 feet in length, was removed and replaced by granite blocks laid in cement.

Cost of the above:

Granite blocks	$428 80
Cement and sand	188 85
Labor, superintendence and incidentals	1,620 56
	$2,238 21

Charges:

Repairs of Sewers, appropriation of 1902	$126 00
Repairs of Sewers, appropriation of 1903	2,112 21
	$2,238 21

RECONSTRUCTION OF PRIVATE DRAIN IN BALTIMORE STREET, BETWEEN LIBERTY AND HOWARD STREETS.

An investigation called for by settlements in the bed of Baltimore street, west of Liberty street, resulted in the discovery of leaks in a 10-inch terra-cotta drain pipe, owned by the estates of Joseph Leopold, Meyer Stein and Jacob Hecht. It was found that this pipe, which had been very badly laid

originally, was insufficient in size to provide for the large quantity of water discharged from the elevators of establishments connected with it, and that it would be necessary to abandon the 10-inch pipe, and to substitute for the same a 15-inch pipe, connecting with the sewer in Liberty street, and extending to a point 230 feet west of said street, in order to prevent further settlements in the bed of Baltimore street and the seepage of water into adjacent cellars. The following statement gives the cost of the work done up to December 31, 1903, including investigations, work done in attempts to repair the 10-inch pipe, excavations, timbering, 15-inch pipe and laying the same, refilling, repaving, etc.

Labor	$953 79
Materials	297 31
	$1,251 10

Charges:

Repairs of Sewers, appropriation of 1903	$1,095 25
Private Paving and Inspection	155 85
	$1,251 10

The total cost of the work described above is $1,394.01; the balance, $142.91, will appear in the report for 1904.

INLETS REMODELED AND TRAPPED.

Kenwood and Fairmount avenues, 2 inlets	$ 81 83
McMechen street and Malster avenue, 3 inlets	185 46
Lakewood avenue and Fayette street, 2 inlets	57 83
Barre street and Spring alley, 2 inlets	211 90
Lombard street near Schroeder street, 2 inlets	189 65
Fulton and Walbrook avenues	171 11
Central avenue and May street, 2 inlets	308 71
Central avenue and Lombard street	83 25
Central avenue and High alley, 2 inlets	360 79
Sycamore near Union avenue	152 41
Wolfe and Baltimore streets	113 63
Ashland avenue and McKim street	62 10
Central avenue and Baltimore street	68 16
	$2,046 83

Charged to Repairs of Sewers, 1903.

INLETS REPAIRED.

Madison avenue and Morton alley	$12 92
Penn and Pratt streets	20 63
Eager street and Morton alley	11 00
Chestnut and Low streets	12 18
Druid Hill avenue and Laurens street	12 92
Central avenue and High alley	15 21
Central avenue and Lexington street	15 19
Central and Fairmount avenues	15 43
Carey and McHenry streets	26 63
McKim and Neighbor streets	31 74
Eastern avenue and Albemarle street	12 39
Lovegrove alley sewer	23 55
Cleaning City Yard	11 22
Richmond street and Plover alley	11 83
Park avenue and Marion street	10 92
McKim street sewer	13 92
Baltimore and Schroeder streets	12 55
York road and Merryman's lane	142 67
Madison and Constitution streets	12 55
Broadway and Aliceanna street	33 44
Central avenue and Mullikin street	74 44
Delwood and Conduit avenues	47 50
Central avenue and Baltimore street	25 42
Wilkins avenue and Monroe street	23 04
Fulton avenue and Eagle street	22 06
Guilford avenue and Chase street	13 48
Arch and Lexington streets	28 12
Charles and Twenty-fourth streets	17 01
Boston and Leakin streets	22 09
Lexington and Pine streets	21 48
Broadway and Lancaster street	13 06
Boston and Windsor streets	17 17
Aisquith and Biddle streets	23 96
Camden and Sharp streets	16 64
Ridgely and Ostend streets	50 97
Central and Fairmount avenues	18 35
Mullikin and Lewis streets	16 34
Jefferson and Eden streets	59 21
Light and Lee streets	306 07
Walbrook avenue and Twelfth street	11 75
Central avenue sewer	209 23
Central avenue and Lexington street	14 28

Montford avenue and Gay street	$18 92
Central avenue and Lombard street	20 65
Eagle and Monroe streets	10 50
Guilford avenue and Chase street	15 82
Bond and Abbott streets	12 92
Fremont street and Burgundy alley	12 08
Wayne street near Warner street	12 08
Calhoun and Rice streets	36 20
Race street sewer	13 92
Maryland avenue and Twenty-ninth street	10 50
Pratt and Mill streets	15 25
Boston and Windsor streets	20 27
Rogers avenue, near Low street	14 29
Biddle street and Hopkins avenue	10 05
Conduit and Delwood avenue	20 33
Liberty and Baltimore streets	24 38
Howard and Camden streets	10 05
McKim street sewer	17 33
Central avenue and Watson street	14 28
Central avenue and Aliceanna street	10 00
Myrtle avenue and Sarah Ann street	13 16
Carey and Lemmon streets	11 12
Biddle street and Hopkins avenue	12 36
Central and Fairmount avenues	16 77
Saratoga and Calhoun streets	16 90
Calhoun alley near Pratt street	18 00
Central avenue and Philpot street	15 48
Warner and Ostend streets	16 62
Central avenue and Fawn street	15 12
Herkimer street near Carey street	13 24
Central avenue and Allen's alley	11 95
Central and Canton avenues	12 53
Central avenue and Pratt street	15 85
Carey and Pratt streets	17 98
Carey street and Baltimore and Ohio bridge	11 60
Central avenue and Gough street	20 23
Boston street in front of 2202	14 95
Franklin street and Myrtle avenue	25 51
Saratoga street and Myrtle avenue	20 85
Penn and Lombard streets	12 50
McKim and Eager streets	20 33
Pratt and Calvert streets	24 72
Central avenue and Union alley	12 95

Central avenue and Fairmount avenue	$13 12
Union and Conduit avenues	11 66
Canton and Central avenues	21 93
Penn and Lombard streets	11 46
Central avenue and Baltimore street	14 66
Fayette and Arch streets	11 96
Maryland avenue and Twenty-ninth street	18 34
Hare and Baltimore streets	34 70
Gay street, near Patterson Park avenue	26 53
Courtland and Franklin streets	13 82
Calvert and Saratoga streets	14 43
Ogier's Run Sewer	68 73
Broadway and Thames street	12 33
Sewer gauges	30 06
Ensor street and Rogers avenue	12 08
Stockholm and Wicomico streets	14 45
Chesapeake street and Philadelphia road	15 38
Sarah Ann street and Myrtle avenue	13 49
Barclay street, near Waverly avenue	12 08
Central avenue and Orleans street	14 35
Gay street, opposite Montford avenue	13 51
Kenwood avenue and Fayette street	67 61
Orleans street and Lakewood avenue	22 32
Eutaw and Preston streets	10 87
Fairmount and Lakewood avenues	20 11
Front and Low streets	20 23
Jackson street and Harford avenue	11 75
Lakewood avenue and Monument street	34 78
Chase and Patuxent streets	21 16
Ensor street and Rogers avenue	30 05
Pennsylvania avenue and Fulton avenue	12 99
Lexington and Pine streets	11 96
Camden and Howard streets	11 96
Saratoga street and Myrtle avenue	22 85
Maryland avenue and Twenty-ninth street	106 46
Chase and Patapsco streets	43 54
Chase and Luzerne streets	63 53
Chase and Patuxent streets	50 95
North avenue, west of Tenth street	223 72
Lakewood avenue and McElderry street	160 26
Pine and Saratoga streets	20 93
Pine street and Penn alley	13 70
Myrtle avenue and Saratoga street	29 20

Myrtle avenue and Greenwillow street	$21 13
Preston and Wolfe streets	12 05
Preston and Gay streets	12 59
Eager street and Hopkins avenue	14 20
Bond and Gay streets	12 52
Pennsylvania avenue, near Sewell street	13 28
Lafayette avenue and Morris alley	13 99
German street, near Arch street	26 64
Boston and Leakin streets	22 11
Hopkins avenue and Eager street	29 44
Carey and Ramsay streets	22 00
Warner and Wayne streets	18 40
Bond and Orleans streets	14 24
Mt. Royal and North avenues	15 16
Lexington and Front streets	14 55
Cumberland street and Pennsylvania avenue	9 80
Orleans street and Central avenue	214 47
Lexington and Chestnut streets	16 00
Saratoga street and Myrtle avenue	14 58
Pratt and Sharp streets	41 88
Lexington and Howard streets	43 16
West and Light streets	12 00
West Fayette street, in front of No. 1020	52 97
Pennsylvania avenue and George streets	12 17
Fayette and Pearl streets	14 80
Pine street and Penn alley	17 05
Central avenue and Monument street	19 30
East Lombard street, rear of No. 13	12 17
Eager street and Broadway	12 49
Fremont and Vine streets	12 33
Central avenue and Baltimore street	32 20
Jefferson street, between Central avenue and Eden street	11 79
Boston and Luzerne streets	12 92
Wolfe street, between Eager and Chase streets	14 75
Pratt street, near Howard street	21 98
Broadway and Hoffman street	21 81
West Fayette street, under No. 1020	22 75
Pine and Josephine streets	12 40
Camden and Howard streets	13 12
Eastern avenue and Eden street	15 03
Myrtle avenue and Sarah Ann street	24 00
Vine and Pine streets	18 88
Arch street, near Saratoga street	12 55

Saratoga and Pine streets	$12 34
Lombard and Hanover streets	10 46
Forrest and McElderry streets	16 33
Charles and Pratt streets	11 21
Lexington and Pine streets	18 27
Rogers avenue and Low street	18 14
Caroline and Federal streets	12 76
Central avenue and Allen's alley	11 05
Central avenue and Lexington street	11 47
Franklin and Calhoun streets	22 24
Eager and Valley streets	15 50
Division street, near Laurens street	14 77
Central avenue and Bank street	47 31
Hillen road	16 60
Lakewood avenue, near Baltimore street	19 59
Central avenue and Gough street	47 60
Mullikin and Lewis streets	18 41
Hanover and Lombard streets	80 99
Pennsylvania and Lafayette avenues	15 09
Race and West streets	18 22
Howard and Conway streets	15 34
Fayette street and Lakewood avenue	29 92
McKim street, near Madison street	14 77
Broadway and Lancaster street	13 90
Light and Pratt streets	14 42
Stockholm and Leadenhall streets	7 67
Broadway and Hoffman street	88 79
Valley street, between Eager and Chase streets	33 82
Fulton and Walbrook avenues	146 69
Bond and Abbott streets	14 25
Ashland avenue and Dallas street	16 50
Fremont and Columbia avenues	15 38
Central avenue and Lexington street	20 50
Bentalou street and Frederick avenue	15 37
Baltimore and Carey streets	14 49
Spear's Wharf	70 13
Foster avenue and Luzerne street	24 12
Lexington street and Park avenue	15 31
Warner and Wayne streets	18 51
Howard and Camden streets	12 52
Fayette street, near Schroeder street	22 60
Luzerne and Fayette streets	15 00
Scott street and Baltimore and Ohio Railroad	87 70

Charles and Balderston streets	$14 20
Howard street and Welcome alley	15 74
Front and Low streets	12 71
Hamburg and Paca streets	18 92
St. Peter and Paca streets	12 97
Light street and Welcome alley	14 22
Fremont and Ramsay streets	21 44
Fremont and Dover streets	12 50
Fayette street, Montford avenue and Orleans street sewer	18 84
Chester street and Ashland avenue	19 08
Fremont street and Columbia avenue	30 37
Boston street, in front of No. 2150	10 17
Patterson Park avenue and Gay street	9 50
Calvert street and Jones' Falls	28 13
Tessier and Orchard streets	11 50
Front and Low streets	23 45
Jenkins run sewer	282 00
St. Paul and Twentieth streets	24 19
Survey for proposed sewers	22 87
	$6,381 70

Charge to Repairs of Sewers, 1902	$668 88	
Charge to Repairs of Sewers, 1903	5,689 95	
Charge to Improvements in and Addition to Drainage System, 1903	22 87	
		$6,381 70

INLETS CLEARED OF OBSTRUCTIONS.

Light and Lee streets	$19 37
Holliday and Lexington streets	12 14
Jenkins' run sewer	4 92
Penn and King streets	2 50
Franklin street and Baltimore and Potomac Railroad	3 19
	$42 12

Charged to Repairs of Sewers, 1903.

RECAPITULATION.

Charges.

	Private Paving and Inspection.	Widening of North avenue.	Sumwalt's Run.	Grading and Kerbing of 29th street.	Improvements in and Additions to Drainage System	Balance from Repairs of Sewers, 1902	Repairs of Sewers, 1903.	Cost of work.
Ogier's Run sewer and Hare and Patuxent streets laterals					$4,326 81		$ 420 87	$4,747 68
Sewer in Twenty-ninth street and Hudson alley			$1,400 00	$700 00	2,558 72	$ 9 09	479 72	5,147 53
New inlets to existing sewers		$639 19			311 97		5,564 98	6,516 14
New manholes to existing sewers							343 11	343 11
Inlets remodeled and trapped							2,046 83	2,046 83
Manholes in inlet covers							414 90	414 90
Inlets cleared of obstructions							42 12	42 12
Inlets repaired					22 87	668 88	5,689 95	6,381 70
Repairs to the bottom of sewers						514 00	7,541 86	8,055 86
15-inch drain pipe on Baltimore st., between Liberty and Howard	$155 85						1,095 25	1,251 10
	$155 85	$639 19	$1,400 00	$700 00	$7,220 37	$1,191 97	$23,639 59	

Repairs of Sewers, appropriation 1903	$24,500 00	Improvements in and Additions to Drainage System, appropriation 1903	$7,000 00
Balance from Repairs of Sewers, appropriation 1902	1,191 97	Bal. from Improvements in and Additions to Drainage System, appropriation 1902.	169 37
	$25,691 97	Received from National Building Supply Company	51 00
Expended 1903	24,831 56		
Balance on hand	$860 41	Expended 1903	$7,220 37

The following statement shows the lengths, in miles, of the several kinds of storm-water sewers now in use in this city:

Brick sewers	28.60	miles.
Stone sewers	6.25	"
Concrete sewers	.48	"
Terra-cotta pipe sewers	5.63	"
Cast-iron pipe sewers	2.90	"
Total	43.86	miles.

In general the brick sewers are circular in form, and from 3 to 11 feet in diameter. A few of the brick sewers have oval or egg-shaped sections, and some of the larger ones have segmental arches, vertical side walls and flat or inverted bottoms. The principal stone sewers have the form of rectangular channels, spanned by segmental arches, and they vary in size from 5 feet in width by 3½ feet in height to 16 feet in width by 9 feet in height. The smaller stone sewers are square or rectangular in shape. The concrete sewers are circular in form, and vary from 8½ feet to 9½ feet in diameter. The inverts of the concrete sewers are in every case lined with vitrified bricks. The terra-cotta pipe sewers are from 15 inches to 30 inches in diameter, and the cast-iron pipe sewers from 20 inches to 5 feet in diameter.

Respectfully submitted,

NEWTON M. GRAY,
Assistant City Engineer.

REPORT OF

John S. Patterson, Asst. City Engineer.

1903.

Department of Public Improvements,

Sub-Department of City Engineer.

City Engineer's Office,

Baltimore, January 1, 1904.

Mr. B. T. Fendall,
City Engineer:

Dear Sir—I herewith respectfully submit a report of all work done by your direction, and under my supervision, for the fiscal year ended December 31, 1903.

This includes the repairing of cobble or rubblestone, Belgian, asphalt and mosaic block, sheet asphalt and vitrified brick pavements, the paving of improved rubblestone pavements, the laying of new footway crossings of flagstones and vitrified blocks, the repairing of iron-covered gutters, granolithic gutters, unpaved streets, macadam roads, avenues and lanes, wooden drain boxes, the repaving over the Chesapeake and Potomac Telephone Company's subway extensions, the Consolidated Gas Company's mains and services, the Baltimore Refrigerating and Heating Company's mains, over drain pipes of private individuals and those from city property, and the supervision of the renewals and repairs of electric street and steam railway tracks. The Department's storage yard was also under my charge.

REPAIRS OF COBBLE OR RUBBLESTONE PAVED STREETS.

The same number of large repair gangs were employed during the year, but as soon as the United Railways and Electric Company began to renew the rails of its tracks, and restore the pavements torn up, there were many desertions on the part of our pavers and rammers to the Railway Company. The inability to secure others to fill their places necessarily

increased the cost of the repairs. In consequence of extensive repairs having been made to sheet asphalt paved streets, and the repairing of Light street, between Pratt and Lee streets, with new Belgian blocks upon a concrete base, and which together absorbed nearly one-third of the appropriation, there were less repairs made to this kind of pavement. The worst streets were selected, and nearly all of them were repaired from kerb to kerb, and wherever conditions warranted the resetting of the good kerbstone, or replacing the old slab kerbstones, with new ones, it was done.

The Maryland Pavement and the Filbert Paving and Construction Companies purchased nearly all the small stone suitable for use either in the manufacture of asphalt blocks or for concrete purposes. It will be noted by the comparative cost of labor and materials that the percentage of cost is slightly in xcess of that for the preceding year, but this is due to the higher price paid for sand and cobblestone, and the increase of wages given foremen and rammers, which is 7 8-10 and 25 per cent. higher, respectively.

The following is a list of the streets repaired:

LIST OF STREETS, ALLEYS, ETC., REPAIRED.

Streets, Etc.	Location.
Chapel st	Between Pratt and Gough sts.
Chapel st	Between Eastern and Canton aves.
Canton ave	Between Chapel and Washington sts.
Lancaster st	Between Caroline and Exeter sts.
Canton ave	Between Exeter and President sts.
President st	Between Eastern ave. and Aliceanna st.
Eastern ave	Between President st. and East Falls ave.
Aliceanna st	Between President and Exeter sts.
Pratt st	Between East Falls ave. and High st.
Lombard st	Between Front and Exeter sts.
Eastern ave. bridge	East side.
Granby st	Between Central ave and Gough st.
Exeter st	Between Baltimore and Granby sts.
Stiles st	Between Albemarle and High sts.
Bethel st	Between Monument and McElderry sts.

Streets, Etc.	Location.
Intersection of	Twenty-second and Calvert sts.
Intersection of	Twenty-fourth and Barclay sts.
Eden st	Between Bank and Pratt sts.
Bank street	Between Central ave. and Caroline st.
Bank st	Between Wolfe and Washington sts.
Caroline st	Between Bank and Gough sts.
Montford ave	Between Eastern and Foster aves.
Chester st	Between Canton ave. and Aliceanna st.
Luzerne st	Between Hudson st. and Foster ave.
Foster ave	Between Luzerne and Cannon sts.
Foster ave	Front of Engine House.
Intersection of	Lakewood ave. and Fayette st.
Intersection of	York and William sts.
Frederick st	Between Baltimore and Gay sts.
Cypress alley	Between Pratt and Lombard sts.
Gillingham alley	Between Lombard and Liberty sts.
Lombard st	Between Gay and Front sts.
Concord st	Between Lombard and Pratt sts.
South st	Between Cable and Pratt sts.
Wood st	Between South st. and Bowly's wharf.
Bowly's wharf	Between Pratt and Wood sts.
High st	Between Baltimore and Lexington sts.
Exeter st	Between Baltimore and Lexington sts.
Fawn st	Between Central ave. and Exeter st.
Albemarle st	Between Pratt and Fawn sts.
Stiles st	Between Little Gough and Exeter sts.
Spring st	Between Baltimore and Fayette sts.
Fayette st	Between Harrison and Gay sts.
Jefferson st	Between Short and Aisquith sts.
Federal st	Between Broadway and Harford ave.
Lanvale st	Between Bond st. and Harford ave.
Wolfe st	Between Oliver and Lanvale sts.
Chase st	Between Washington and Chester sts.
Milliman st	Between Broadway and Hopkins ave.
Eager st	Between Washington and Chester sts.
Oliver st	Between Wolfe and Chester sts.
Mullikin st	Between Eden and Caroline sts.
Mullikin st	Between Broadway and Ann st.
Biddle st	Between Patterson Park ave. and Chesapeake st.
Washington st	Between Fairmount ave. and Fayette st.
Fayette st	Between Wolfe and Washington sts.

Streets, Etc.	Location.
Jefferson st	Between Wolfe and Washington sts.
Chapel st	Between Orleans and McElderry sts.
Mosher st	Between Gilmor st. and Fulton ave.
Robert st	Between Druid Hill ave. and Brunt st.
Intersection of	Winchester and Calhoun sts.
Stricker st	Between Riggs ave. and Winchester st.
Monroe st	Between Lafayette ave. and Mosher st.
Kirby's lane	Between Lanvale st. and Harlem ave.
Lanvale st	Between Fulton ave. and Payson st.
Parrish alley	Between Lanvale st. and Lafayette ave.
Rice st	Between Calhoun and Stricker sts.
Whatcoat st	Between Lafayette ave. and Mosher st.
Norris alley	Between Lafayette ave. and Mosher st.
Harlem ave	Between Monroe st. and Fulton ave.
Arlington ave	Between Lexington and Saratoga sts.
Harlem ave	Between Stricker and Gilmor sts.
Stricker st	Between Lafayette and Harlem aves.
Lanvale st	Between Calhoun and Carey sts.
Lanvale st	Between Stricker st. and Parrish alley.
Calhoun st	Between Mosher and Winchester sts.
Division st	Between Dolphin and Hoffman sts.
Dolphin st	Between Pennsylvania ave. and Etting st.
Division st	Between Lanvale st. and Lafayette ave.
Preston st	Between Jenkins and Mason alleys.
Preston st	Between Park and Linden aves.
Intersection of	Linden ave. and Whitelock st.
Ducatel st	Between Linden ave. and Bolton st.
Newington ave	Between Callow ave. and Bolton st.
Bolton st	Between North ave. and Robert st.
Barre st	Between St. Peter st. and Columbia ave.
Paca st	Between St. Peter st. and Columbia ave.
Fremont st	Between Ridgely and Barre sts.
Paca st	Between Fremont and Barre sts.
Paca st	Between West and Hamburg sts.
West st	Between Ridgely and Warner sts.
Russell st	Between Cross and Stockholm sts.
Ridgely st	Between Fremont ave. and Ostend st.
Burgundy alley	Between West and Cross sts.
Amity st	Between Baltimore and Saratoga sts.
Mount st	Between Lombard and Hollins sts.
Lombard st	Between Gilmor and Mount sts.
Gilmor st	Between Lombard st. and Wilkens ave.

Streets, Etc.	Location.
Ramsay st	Between Calhoun and Forrest sts.
Wilkens ave	Between Bentalou st. and Fulton ave.
Ramsay st	Between Bentalou st. and Wilkens ave.
Smallwood st	Between Ramsay st. and Wilkens ave.
Calhoun st	Between McHenry and Pratt sts
Carey st	Between Pratt st. and Columbia ave.
Lee st	Between Light and Charles sts.
Bevans st	Between Hamburg and Henrietta sts.
Barney st	Between Hanover and Charles sts.
Haubert st	Fort ave., rear of Engine House.
Olive st	Between Rope Walk lane to 150 feet below Barney st.
Fort ave	Between Allen st. and B. & O. Warehouse
Hope alley	Between Warren ave. and Hamburg st.
Battery ave	Between Warren ave. and Hamburg st.
Battery ave	Between Warren ave. and Montgomery st.
Intersection of	William and Church sts.
Intersection of	William and Montgomery sts.
Intersection of	William and Hamburg sts.
William st	Between Montgomery and Hamburg sts.
Patapsco st	Between West and Ostend sts.
William st	Between Fort ave. and West st.
West st	Between Charles and Light sts.
Hughes st	Between William and Covington sts.
Hamburg st	Between Hanover st. and Battery ave.
Compton st	Between Hamburg and Cross sts.
Church st	Between Light st. and Battery ave.
Barre st	Between Light and Charles sts.
Williamson st	Between Hanover and Charles sts.
Hoffman st	Between Stoddard and McCulloh alleys.
Hoffman st	Between Linden ave. and Morris alley.
Brevard st	Between Biddle st. and Camel alley.
Rose st	Between Linden and Madison aves.
Park ave	Between Howard and Chase sts.
Howard st	Between Park ave. and Richmond st.
Laurens st	Between Park ave. and Eutaw st.
Bolton st	Between Laurens and Robert sts.
Robert st	Between Linden ave. and Bolton st.
Morris alley	Between McMechen and Wilson sts.
Wilson st	Between McCulloh st. and Linden ave.
Bolton st	Between Lafayette ave. and Wilson st.
Park ave	Between McMechen and Wilson sts.

Streets, Etc.	Location.
Hoffman st.	Between Linden and Madison aves.
Hoffman st.	Between Jenkins and Mason alleys.
Mason alley	Between Dolphin and Preston sts.
Jenkins alley	Between Dolphin and Preston sts.
Intersection of	Linden ave. and Whitelock st.
Lombard st.	Between Light and Charles sts.
Intersection of	Lombard and Schroeder sts.
Winchester st.	Between Carey st. and Fremont ave.
Balderston st.	Between Charles and Grant sts.
Wolfe st	Between Baltimore st. and Fairmount ave.
Kimmel alley	Between Lexington and Clay sts.
Park ave	Between Lexington and Fayette sts.
Tyson alley	Between Saratoga and Mulberry sts.
Little Sharp st.	Between Fayette and Lexington sts.
Church st.	Between Fayette and Lexington sts.
Twentieth st.	Between Oak st. and Maryland ave.
Alley north of North ave.	Between Oak st. and Maryland ave.
North ave	Between Mt. Royal ave. and John st.
North ave	In front of Park entrance.
Fayette st.	Between Arch and Pine sts.
Plowman st.	Between Front and High sts.
Little Front st.	Between Plowman and Baltimore sts.
Long Dock	Between Pratt st. and water front.
Buchanan's wharf	Between Pratt st and water front.
Lombard st.	Between South and Gay sts.
Cable st.	Between Gay and Holliday sts.
Spear's wharf	Between Pratt st. and water front.
Franklin st.	Between North and Calvert sts.
Patterson st.	Between Pratt st. and water front.
Baker st.	Between Fulton ave. and Friendsbury Place.

COMPARATIVE COST OF COBBLESTONE REPAVING.

	1902.	1903.	Per Cent. Inc.	Per Cent. Dec.
Square feet repaved.	2,428,599	1,443,396		
Expended for labor	$64,619.50	$47,235.24		
Cost per sq. ft. for labor	.0267	.0327	2.2	
Expended for materials	25,760.49	14,673.10		43.0
Total cost per sq. ft	.0373	.0428	1.5	

At the following places repairs were made, and charged to roads, streets, etc.:

HARMAN'S ROAD.

The site of the old wooden trestle bridge, that had been abandoned and filled in as a dirt road, was in an almost impassable condition in the beginning of the year. It was throughly resurfaced with gneiss broken stone to the depth of from six to ten inches, and covered with a layer of cinders. Expenditures:

Labor	$42 05	
Materials, 550.91 cubic yards gneiss broken stone	963 00	
248 cubic yards cinders	74 40	
		$1,079 45

Changing large iron plates over sewer foot of Broadway, and intersection of Thames street:

Labor	$97 81

Repairing three-foot open gutter across Front street, south side of Gay street:

Labor	$49 83

Opened a dirt gutter for surface drainage on the north side of Ward street, between Carey and Stockholm streets:

Labor	$40 63

Filled in behind bulkhead foot of Charles street, to prevent future washing away of street bed. This work was done by Wm. T. Hoffman, contractor, at his contract price, $175.00.

The following is a statement of the amount, character and cost of the work done by the large gangs at the above mentioned places:

1,443,396 square feet cobblestone repaving at $0.0428 per sq. ft.	$61,908 37
10,975 square feet Belgian block repaving at $0.0508 per sq. ft.	557 61
105 square feet mosaic block at $0.042	4 41
11,814.53 square feet old flagstone reset at $0.085	1,004 24

225.47 square feet new flagstone set at $0 385 per sq. ft..	86 80
42,909 lineal feet old gutterstone reset at $0 034 per lin. ft.....	1,458 90
14,837.9 lineal feet new standard gutterstone set at $0.334.	4,955 86
7,336.1 lineal feet new hammer dressed gutterstone at $0.284 per lin. ft.....	1,998 46
28,079.4 lineal feet old 4½ hammer curbstone reset at $0.072 per. lin. ft.....	2,021 71
3,142.6 lineal feet new 4½ curbstone set at $0 672 per lin. ft.....	2,088 27
15.33 lineal feet new 4½ cnrbstone circles sat at $1.35 per lin. ft.....	20 69
	$76,105 32

The following is a statement of the amount and character of the work done by the small emergency gangs, and the expense incident thereto:

156,622 square feet cobblestone repaved.
13,124 square feet Belgian block repaved.
70 square feet asphalt block repaved.
3,970 square feet flagstone reset.
15,539 lineal feet gutterstone reset.
12,817 lineal feet kerbstone reset.

Expenditures.

Labor	$7,785 62
Material.....	538 88
	$8,324 50

COMPARATIVE COST OF NEW MATERIALS.

MATERIALS.	1902.	1903.	Per Cent. Inc.	Per Cent. Dec.
Cobblestone, per perch	$1.8148	$1.902	4.8	.....
Standard gutterstone, per lin. ft.....	0.25	.30	.....	.....
Hammer-dressed gutterstone, per lin. ft.....	0.20	.25	.....	.....
4½ inch curbstone, per lin. ft.....	0.55	.60	.....	.....
Flagstone, per sq. ft	0.25	.30	.....	.....
Paving sand, per cu. yd.....	0.5625	0.8245	46.5	.....
Screened sand, per cu. yd...	0.7445	0.9770	31.2	.....

COMPARATIVE COST OF LABOR FOR DIFFERENT KINDS OF WORK.

MATERIALS.	1902.	1903.	Per Cent.	
			Inc.	Dec.
Laying cobblestone, per sq. ft	$0.0267	$0.0327	2.2	
Laying Belgian block, per sq. ft	0.0350	0.043		
Laying mosaic blocks, per sq. ft	0.0457	0.042		
Setting flagstones, per sq. ft	0,0834	0.085		
Setting gutterstone, per lin. ft	0 0328	0.034		
Setting new 4½-inch kerb-stone, per lin. ft	.10	0.072		
Setting old 4½-inch kerb-stone, per lin. ft	0.0707	0.072		

THE REPAVING OF LIGHT STREET, BETWEEN PRATT AND LEE STREETS.

The repaving of Light street from Pratt street to Lee street consisted in the tearing out and removal of the old worn Belgian blocks, the grading to a depth of about nine inches, the laying of a concrete base of about six inches in thickness, with a cushion of from two to three inches of screened sand or stone dust spread upon it, and repaving with new and the best of the old blocks culled out. These blocks were from six to seven inches in depth, and laid at right angles to the line of the kerb. Screened sand and stone dust were then raked into the joints, each block thoroughly rammed with single bow-rammers, and the surface left covered with a layer of about two inches of sand. All open cross-gutters were removed by the laying of underground drain pipes with inlet gratings constructed on the west side of the street to intercept the surface drainage. The best of the old flagstones composing the footway crossings were redressed, and new pieces used wherever necessary.

Three gangs of men were employed—one doing the grading, one the concreting, and the other the repaving. The work continued uninterruptedly every day and night in the week until its completion. Only about forty lineal feet of the street could be opened up at a time, so as to inconvenience the business of the public as little as possible. This procedure, although of little interruption to the public, was of much inconvenience and expense to this Department, since all the materials could not be delivered close to the work as it progressed, and the carts removing and delivering the material were considerably hampered by the constant congestion of travel on the street. Much trouble was also experienced in securing carts to work at night.

One-half the bed of the street in front of the Old Bay Line's wharf was not disturbed, as it was repaved upon a concrete base at the time the company located there.

All the old worn blocks, taken up on this street, were used to replace the cobblestone pavement of many narrow streets in which street railway tracks are laid, and is commonly known as "Mosaic block pavement."

STATEMENT OF WORK ON LIGHT STREET.

Labor, payrolls	$7,710 10
117,460 new Belgian blocks	5,780 07
8,320 sq. ft. old Belgian blocks	166 40
624.07 cu. yds. stone dust	624 07
913.26 cu. yds. broken stone	1,598 19
867.33 cu. yds. screened sand	867 33
171 bbls. Nazareth cement	389 88
616 bags Nazareth cement	369 60
294 bbls. Alpha cement	655 62
212 bags Alpha cement	126 14
220 lin. ft. gutterstone	66 00
200 sq. ft. flagstone	60 00
Rent	10 00
	$18,423 40

2,526 cu. yds. excavation	@	$1 17	$2,956 47
4,759.91 sq. yds. mosaic stone hauled	@	125	594 99
6,062.44 sq. yds. Belgian block paving	@	1 414	8,577 09
545 lin. ft. old gutterstone reset	@	05	27 25
220 lin. ft. new gutterstone set	@	35	77 00
140 lin. ft. old kerbstone reset	@	15	21 00
1,068 sq. ft. old flagstone reset	@	15	160 20
200 sq. ft. new flagstone set	@	50	100 00
950 cu. yds. concrete in place	@	5 47	5,197 01
440 cu. yds. sand cushion in place	@	1 10	484 00
458 empty barrels returned	@	10	45 80
828 empty bags returned	@	10	82 80
42 cu. yds. sand and stone dust washed away	@	1 00	42 00
Storage yard			10 00
Getting ready, receiving materials and cleaning up			47 79
			$18,423 40

Recapitulation.

Expended		$18,423 40
Empty bags and barrels, etc.	$723 59	
Gutter, kerb, rent, etc	443 24	
Loss by floods	42 00	
		1,208 83
6,062.44 sq. yds. Belgian block pavement at $2.839		$17,214 57

6,062.44 sq. yds. excavation	$0	488	$2,956 47
6,062.44 sq. yds. concrete		857	5,197 01
6,062.44 sq. yds. sand cushion		079	484 00
New materials on 6,062.44 sq. yds	1	078	6,535 87
Labor on 6,062.44 sq. yds. paving		337	2,041 22
	$2	839	$17,214 57

RENEWALS AND REPAIRS TO ASPHALT BLOCK PAVED STREETS.

All the streets paved with asphalt blocks were in good repair upon the suspension of work for the year. Wherever the condition of the pavement warranted renewing, it was done, and the best of the old blocks taken up were used to repair sections of the pavements less disintegrated. In some places cement grouting was used instead of sand or crushed stone dust to fill the joints of the old blocks after being relaid. No new blocks were used in relaying the old work.

In making renewals and repairs in streets where street railway tracks are laid, the United Railways and Electric Company had this Department do its portion and at its expense. The blocks of the size 5x4 inches were used and laid with the larger area, sixty square inches, as the wearing surface.

The Maryland Pavement Company furnished the blocks at its contract price of 6½ cents per block. All other materials used were under contract, and the work done was by day's labor by the city. It will be noted that the cost of the new work both for labor and material is slightly decreased from that of the preceding year, notwithstanding the increase of wages given foremen and rammers, and the higher price per cubic yard for screened sand. The increase in the wages of the foremen and rammers was 8 3-10 and 25 per cent. higher, respectively, while the cost of screened sand was 1 3-10 to 33 per cent. higher than the preceding year. The total area renewed was 6,475.16 square yards, at a total cost of $10,422.61, an average cost of $1.609 per square yard. The total area of repair work done (barring some small patching) was 7,665.75 square yards, at a total cost of $3,487.68, an average cost of $0.454 per square yard.

The following is a list of streets upon which renewals and repairs were made, the number of square yards paved and repaired, and the cost per square yard for labor and materials:

St. Paul street, between North avenue and Monument street:

Renewing.

	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 1,383.26 sq. yds	$ 306 47	$0.2215
29,809-5x4-inch blocks used at 6½c. per block	1,937 59	1.4311
700-4x4-inch blocks used at 6c. per block	42 00	
35 cu. yds. screened sand at 85c. per cu. yd.	29 75	0.0215
25.71 cu. yds. stone dust at $1.25 per cu. yd	32 14	0.0232
	$2,347 95	$1.6973

Repairing.

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 1,804.33 sq. yds	$ 695 06	$0.3852
67 cu. yds. screened sand at 85c. per cu. yd. / 2 cu. yds. screened sand at 90c. per cu. yd.	58 75	0.0325
21.97 cu. yds. stone dust at $1.25 per cu. yd. / 3 cu. yds. stone dust at $1 per cu. yd	30 46	0.0168
	$784 27	$0.4345

Washington Place, west driveway, between Madison street and Mt. Vernon Place:

Renewing.

	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 71.1425 cu. yds	$ 14 63	$0.2056
1,447-5x4-inch blocks used at 6½c. per block	94 05	1.3219
7 cu. yds. screened sand at 85c. per cu. yd	5 95	0.0836
1.1 cu. yds. stone dust at $1 per cu. yd	1 10	0.0154
	$115 73	$1.6265

Repairing.

Labor cleaning old blocks and relaying 216.888 sq. yds	$ 96 63	$0.4455
5 cu. yds. screened sand at 85c. per cu. yd	4 25	0.0195
4.38 cu. yds. stone dust at $1 per cu. yd	4 38	0.0202
	$105 26	$0.4852

Cathedral street, between Madison street and Mt. Vernon Place:

Renewing.

	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 449.6795 sq. yds	$ 78 13	$0 1737
9,476-5x4-inch blocks used at 6½c. per block	615 94	1 3697
26.2 cu. yds. screened sand at 90c. per cu. yd.	23 58	0.0524
19.21 cu. yds. stone dust at $1 per cu. yd	19 21	0.0427
	$736 86	$1.6385-

Repairing.

Labor cleaning old blocks and relaying 700 sq. yds	$ 237 91	$0 3398
68.3 cu. yds. screened sand at 90c. per cu. yd	61 47	0.0878
7.43 cu. yds. stone dust at $1 per cu. yd	7 43	0.0106
	$306 81	$0.4382

Monument street, between Park avenue and Cathedral street:

Repairing.	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 137 77 sq. yds	$37 95	$0.2754
6.33 cu. yds. stone dust at $1 per cu. yd	6 33	0.0459
	$44 28	$0.3213

Mount Royal avenue (west driveway), between McMechen and Mosher streets:

Renewing.	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 156.222 sq. yds	$ 47 71	$0.3053
3,280-5x4-inch blocks used at 6½c. per block	213 20	1.3647
4 cu. yds. screened sand at 90c. per cu. yd	3 60	0.0230
2.33 cu. yds. stone dust at $1 per cu. yd	2 33	0.0149
	$266 84	$1.7079
Repairing.		
Labor cleaning old blocks and relaying 132.66 sq. yds	$52 71	$0.3973
8 cu. yds. screened sand at 90c. per cu. yd	7 20	0.0542
4.24 cu. yds. stone dust at $1 per cu. yd	4 24	0.0319
	$64 15	$0.4834

Lafayette avenue, between Mount Royal and Fulton avenues:

Renewing.	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 1,473.175 sq. yds	$ 291 30	$0.1977
30,850-5x4-inch blocks used at 6½c. per block	2,005 25	1.3611
52.6 cu. yds. screened sand at 90c. per cu. yd. 20.8 cu. yds. screened sand at $1 per cu. yd	68 14	0.0462
30.4 cu. yds. stone dust at $1 per cu. yd	30 40	0.0205
	$2,395 09	$1.6255
Repairing.		
Labor cleaning old blocks and relaying 2,171.222 sq. yds	$ 859 75	$0.3959
54.2 cu. yds. screened sand at 90c. per cu. yd. 26 cu. yds. screened sand at $1 per cu. yd	74 78	0.0344
36.57 cu. yds. stone dust at $1 per cu. yd	36 57	0.0168
36 bags Alpha cement at 59½c. per bag. 6 bbls. Alpha cement at $2.23 per bbl	34 80	0.0160
	$1,005 90	$0.4631

Fulton avenue, between Lorman and Fayette streets:

Renewing.

	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 1,282.285 sq. yds	$ 299 26	$0.2333
24,567-5x4-inch blocks used at 6½c. per block	1,596 86	1.2453
47 cu. yds. screened sand at $1 per cu. yd	47 00	0.0366
42.9 cu. yds. stone dust at $1 per cu. yd	42 90	0.0334
	$1,986 02	$1.5486

Repairing.

Labor cleaning old blocks and relaying 714.66 sq. yds	$ 325 81	$0.4558
33 cu. yds. screened sand at $1.00 per cu. yd	33 00	0.0462
26.88 cu. yds. stone dust at $1.00 per cu. yd	26 88	0.0376
12 bags Alpha cement at 59½c. per bag	7 14	0.0100
	$392 83	$0.5496

Lexington street, between Pearl street and Fulton avenue:

Renewing.

	Total cost.	Cost per sq. yd.
Labor tearing out old work and laying 1,659.3937 sq. yds	$ 353 91	$0.2133
33,014-5x4-inch blocks used at 6½c. per block	2,145 91	1.2932
51 cu. yds. screened sand at $1.00 per cu. yd	51 00	0.0307
23.3 cu. yds. stone dust at $1.00 per cu. yd	23 30	0.0140
	$2,574 12	$1.5512

Repairing.

Labor cleaning old blocks and relaying 1,788.22 sq.yds	$ 678 39	$0.3793
80.9 cu. yds. screened sand at $1.00 per cu. yd... / 1 cu. yd. screened sand at 85c. per cu. yd	81 75	0.0457
6.19 cu. yds. stone dust at $1.00 per cu. yd	6 19	0.0034
30 bags Alpha cement at 59½c. per bag	17 85	0.0099
	$784 18	$0.4383

Repairing.

McCulloh street, between Biddle and Hoffman streets:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 20 sq. yds...	$12 57	
0.7 cu. yd. screened sand at 85c. per cu. yd.....	60	
212 new asphalt blocks used at 6½c. per block...	13 78	
	$26 95	$1.3475

Saratoga street, between Charles and Eutaw streets:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 4.44 sq. yds.....	$2 07	
16 new asphalt blocks used at 6½c. per block...	1 04	
	$3 11	$0.70

Pearl street, between Baltimore and Saratoga streets:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 229 sq. yds.....	$159 48	
2 7 cu. yds. screened sand at 85c. per cu. yd.....	2 60	
15.88 cu. yds. stone dust at $1.00 per cu. yd.....	15 88	
225-5x4-inch new asphalt blocks used at 6½c. per block.....	14 63	
	$192 59	$0.841

Forrest street, between Hillen and Gay streets:

Worn out places in sheet asphalt pavement were patched with old asphalt blocks:

	Total cost.	Cost per sq. yd.
Labor tearing out old sheet asphalt and concrete, and relaying 15.81 sq. yds. old asphalt block	$17 19	
2 cu. yds. screened sand at 85c. per cu. yd.....	1 70	
	$18 89	$1.19

Eutaw Place, between Dolphin and Lanvale streets:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 3.11 sq. yds	$1 38	
0.5 cu. yds. screened sand at 90c. per cu. yd	45	
	$1 83	$0.58

Charles street, between Eager and Chase streets:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 174.11 sq. yds	$89 70	
300-4x4-inch blocks at 6c	18 00	
51-4x4-inch blocks at 6c. (on hand)	3 06	
223 5x4-inch blocks at 6½c. (on hand)	14 50	
15.9 cu. yds. stone dust at $1.00 per cu. yd	15 90	
	$141 16	$0.8107

Tyson alley, between Cathedral street and Morton alley:

	Total cost.	Cost per sq. yd.
Labor cleaning old blocks and relaying 40.42 sq. yds	$32 76	
0.5 cu. yds. screened sand at 85c. per cu. yd	42	
	$33 18	$0.82

Labor charged to Roads, Streets, etc	$250 04
Labor charged to Widening North avenue	13 42
Labor charged to Private Paving and Inspection	51 69
Material charged to Roads, Streets, etc	18 59
Material charged to Roads, Streets, etc. (on hand)	17 56
Material charged to Private Paving and Inspection	66 41

COMPARATIVE COST OF RENEWING AND REPAIRING ASPHALT BLOCK PAVED STREETS.

New Work.	1901.	1902.	1903.	1902. Per Cent.		1903. Per Cent.	
				Inc.	Dec.	Inc.	Dec.
Square yards paved	5,675	8,401 518	6,475.16	48.			29.7
Expended for labor	$1,219.50	$1,618.27	$1,319.41	32.7			14
Expended for material	9.524.05	12,125.38	9,031.20	27.3			25 5
Cost of labor per square yard	.21	.19	.21		9.5	0.9	
Cost of materials per square yard	1.67	1.44	1.39		13.7		3.6
Total cost per square yard	1.88	1.63	1.609		13.3		1 3
Old Work.							
Square yards paved	4,816 7	8,913.717	7,665.75	85.			14.
Expended for labor	$1,799 94	$2,975.53	$2,984.21	65.3		.2.	
Expended for material	264.70	650.42	503.47	59.3			22.5
Cost of labor per square yard	.373	.333	.389		12.	16.8	
Cost of materials per square yard	.055	.072	065	30 8			9.7
Total cost per square yard	.428	.40	.454		6.5	13.5	

Labor charged to Roads, Streets, etc	$4,359.34
Materials charged to Roads, Streets, etc	9,360.49
Labor charged to Private Paving and Inspection	16.28
Material charged to Private Paving and Inspection	174.18

MOSAIC BLOCK PAVING.

Mosaic blocks were substituted for cobblestones in Cypress alley, from Pratt street north for a distance of about 150 feet, and from Lombard street south for about the same distance; in Lombard street, from Gay street to Exeter street; in Exeter street, from Lombard street to Pratt street; in Pratt street, from High street to Jones' Falls; in Fayette street, from Gay street to Harrison street, and in the intersection of Light and Lee streets.

The old cobblestones from the above-named streets were used in repairing the adjacent cobblestone-paved streets.

The kerbstone on the above-named streets was reset where necessary, and the gutterstone laid up against it, thereby widening the roadway twice the width of the rebut.

Of the 5,175.77 square yards of mosaic paving done, only 415.86 square yards were done with new stone, the balance having been done with old Belgian blocks hauled from Light street, between Pratt and Lee streets.

All of the new mosaic stone was used in Fayette street, between Frederick and Harrison streets.

STATEMENT OF EXPENDITURES.

Pay rolls	$3,575 35	
415.86 sq. yds. new mosaic stone at 85c	353 48	
4,579.91 sq. yds. new mosaic stone hauled at $0.125	594 99	
293.60 cu. yds. sand, delivered	269 33	
998.18 perches old cobble, hauled at $0.60		$ 598 91
718 sq. ft. cobblestone repaving at $0.03		21 54
5,567 lin. ft. gutterstone reset at $0.03		167 01
3,327 lin. ft. kerbstone reset at $0.10		332 70
2,019 sq. ft. flagstone reset at $0.10		201 90
5,175.77 sq. yds. mosaic paving at $0.670		3,471 09
	$4,793 15	$4,793 15

Recapitulation.

Cost per sq. yd. for labor on whole work	$0.435
Cost per sq. yd for materials on whole work	0.235
	$0.670

Cost per sq. yd. for labor paving new stone	$0.435
Cost per sq. yd. for sand on new stone	0.048
Cost per sq. yd. for new stone	0.850
	$1.333

Cost per sq. yd. for labor paving old stone	$0.435
Cost per sq. yd. for sand on old stone	0.052
Cost per sq. yd. for hauling old stone	0.115
	$0.602

REPAIRS TO SHEET ASPHALT PAVED STREETS.

Extensive repairs were made to this kind of pavement, as the topping and binder were badly worn in many of the streets. The resurfacing consisted of one and one-half inch binder, and one and one-half to two inches of topping, the concrete base in nearly all cases being intact. There were some very large areas thus resurfaced or reconstructed, and wherever repairs were made in continuous areas of one hundred square yards or upwards they are under a five-year guarantee, all other areas less than one hundred square yards being under a one-year guarantee. All the areas under a five-year guarantee were accurately located and plotted on maps on file in this office. These repairs were done under contract by the Filbert Paving and Construction Company. The reconstruction of the pavement wherever needed along the tracks of the United Railways and Electric Company was made in conjunction with this Department's work, and bills for the cost thereof were rendered and paid by the company. In making these repairs along the tracks two courses

of slag blocks were laid, in some places, as stretchers upon a concrete base and abutting the outer rail of the two parallel tracks, in place of sheet asphalt, as the pounding of wagon wheels turning in and out of the tracks upon the pavement contiguous to the rails is more destructive to the sheet asphalt than to the slag block construction. The following is a list of the streets repaired, with the areas and the cost of same :

SHEET ASPHALT REPAIRS, 1903.

Street, Etc.	From	To	Sq. Yds. Sheet Asphalt.	Cost.	Lin. Feet Toothing.	Sq. Yds. Paving.	Cost.	Lin Feet Granolithic Gutters.	Cost.
Sharp street	Camden street	Pratt street	4.40	$ 9 59					
Hollins street	Poppleton street	Carrollton avenue.	222.49	376 00					
Mt. Royal and Maryland avenues			167.26	411 88	996.67		$ 448 50		
Richmond Market			267.13	597 56	480.16	34.05	318 22		
Camden street	Hanover street	Howard street	335.19	865 22	1,727.66		777 44		
Camden lane	Camden street	Dover street	13.84	23 39					
Broadway	Canton avenue	North avenue	7,807.11	18,081 41	5,438.00	25 99	2,525 08	67.80	$ 33 90
Baltimore street	Broadway	Chesapeake street.	1,941.00	4,285 96					
Chase street	Broadway	Calvert street	276.88	631 29		2 90	8 70	114 50	57 25
Mulberry street	Charles street	Howard street	23.39	53 33					
Lafayette Market			394.25	898 89	397.30		178 79		
Marsh Market			1,031.86	2,397 24				393.10	196 55
City Hall			446.76	1,017 07	2,243.00	11.10	1,042 65	43.00	21 50
Lexington street	Gay street	Calvert street	1,357.34	3,192 36	208.80	9.58	121 80		
Fayette street	North street	Calvert street	14.90	38 97					
Front street	Baltimore street	Gay street	1,216.00	2,807 89					
Calvert street	Read street	Mt. Royal avenue.	1,208.06	2,789 70					
St. Paul St. Bridge			20.20	46 06					
			16,748.06	$38,523 81	11,491.59	83.62	$5,421 18	618.40	$309 20

RECAPITULATION

Sheet asphalt repaired.....	16,748.06 sq. yds.	$38,523 81	
Slag block toothing.....	11,491.59 lin. ft.	5,421 18	
Slag block paving.	83 62 sq. yds.		
Granolithic gutters repaired.....	618 40 lin. ft.	309 20	
Charged to account of Private Paving and Inspection..		.....	$5,205 82
Charged to account of Repairs to Roads, Streets, etc...		.....	39,048 37
		$44,254 19	$44,254 19

Sheet asphalt guaranteed for 5 years...	9,723.95 sq. yds.
Sheet asphalt guaranteed for 1 year....	7,024.11 sq. yds.
Sheet asphalt repaired.....	16,748.06

VITRIFIED BRICK PAVEMENTS.

The only repairs made to this kind of pavement were some small patches, the most of which was done on the southwest side of the Belair Market, between Hillen and Ensor streets.

Chase street, between Cathedral street and Maryland avenue:

	Total cost.	Cost per sq. yd.
Labor tearing out and relaying 2.5 sq. yds.....	$1 80	
35 Iron rock blocks at $24.00 per M (on hand)...	84	
	$2 64	$1 05

Forrest street (Belair Market) between Hillen and Ensor streets:

	Total cost.	Cost per sq. yd.
Labor tearing out and relaying 9.89 sq. yds.....	$10 68	
1 cu. yd. screened sand at 85c. per cu. yd.....	85	
	$11 53	$1 16

Widening North avenue, and changing gutters at Peck's Branch:

This work, begun in 1902, was completed during the present year. The balance of the old paved gutter on the north side of the avenue, which extended from a point east of Braddish avenue to Seventh street, was taken up and reset on the proper line. The bed of the avenue from the old to the newly established gutter line was then surfaced to a proper grade with rotten rock, and the flagstone crossings at Braddish avenue and Seventh street were extended to the gutter line.

Following is the amount, character of work done in the changing of the gutter, and the expense incident thereto:

4,305 sq. ft. of cobblestone repaving
921 lin. ft. of gutterstone reset.
176 sq. ft. of flagstone set.

Unexpended balance carried over from 1902.....		$1,593 17
Expended for labor.....	$959 53	
Expended for material.....	60 51	
		$1,020 04

FOOTWAY CROSSINGS OF METROPOLITAN VITRIFIED BLOCKS.

The Metropolitan vitrified blocks of Canton, Ohio, were used, and furnished under contract, f. o. b. Baltimore, at $25.00 per one thousand, $1.00 per one thousand higher than the past two years. The hauling of these blocks from the railroad stations was at the rate of $2.20 per one thousand, as against $1.95 per one thousand for the two preceding years. Screened sand was also from 1 3-10 per cent. to 33 per cent. higher than that for the past few years, while crushed stone dust was at the same rate, $1.00 per cubic yard, as that for 1902. The rate of wages for rammers was 25 per cent. higher this year.

The footway crossings were laid in all sections of the city, and are of a uniform width of five feet, except those at Irvington, which are four feet wide, and those placed at street crossings in Forest Park and West Arlington, which are only three feet wide.

Considerable cobblestone repaving was required in connection with the laying of these footway crossings, as will be noted in the tabulated list of locations.

On account of the inclemency of the weather in the latter part of November and December, the work of finishing the crossings to be placed was retarded to such an extent that there still remain on the ground 4,084 blocks yet unlaid at the end of the year.

The following table shows the comparative cost of laying these crossings:

COMPARATIVE COST OF VITRIFIED BLOCK FOOTWAY CROSSINGS.

	1901.	1902.	1903.	1902. Per Cent.		1903. Per Cent.	
				Inc.	Dec.	Inc.	Dec.
Square yards paved	1,514.4	2,329.10	2,942.21	53 7	.....	26.3	.....
Expended for labor	$1,197.44	$1,498 96	$2,155.88	25.1	.....	43.8	.....
Expended for materials	1.593 56	2,510.00	3,390.10	57.5	.....	35.0	.....
Cost of labor per square yard	.79	.64	.73	.....	19.0	14.0	.....
Cost of material per square yard	1.05	1 08	1.15	2.8	.....	6.4	.....
Total cost per square yard	1.84	1.72	1.88	.....	6.5	9.3	.....

Charged to vitrified blocks and flagstone footway crossings, labor		$2,182 66
Charged to vitrified blocks and flagstone footway crossings, material		3,390 94
		$5,573 60
Roads, Streets, etc., { Labor $ 80 08 / Material 224 35 }		304 43
Private Paving and Inspection		7 77
Balance brought forward from 1902 (special)		88 99

Location.			Square Feet.		Cost.		
Side	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
West	Eden street	Alley S. of Baltimore st	81	48	$ 6 17	$ 5 88	$ 12 05
North	Orleans street	Duncan alley	65	60	8 37	7 18	15 55
South	Orleans street	Duncan alley	75	60	6 17	7 31	13 48
North	Orleans street	Madeira street	96	60	5 13	7 55	12 67
South	Orleans street	Madeira street	50	60	4 37	6 43	10 80
South	Jefferson street	Madeira street	75	59	5 54	7 40	12 94
North	Jefferson street	Madeira street	103	57	6 17	6 69	12 86
South	Orleans street	Alley W. of Luzerne st.	95	50	7 75	6 04	13 79
South	Monument street	Madeira street	84	62	6 58	7 49	14 07
West	Patterson Park ave	Monument street	185	155	14 41	18 10	32 51
East	Patterson Park ave	Monument street	208	158	15 66	18 23	33 89
North	Jefferson street	Alley east of Wolfe st.	80	50	6 17	6 27	12 44
South	Jefferson street	Alley W. of Chester st.	65	38	3 95	4 89	8 84
South	Jefferson street	Durham street	96	60	5 55	7 54	13 09
West	Chester street	Alley N. of Jefferson st	90	50	5 00	6 07	11 07
North	Jefferson street	Alley east of Washington street	95	55	5 00	6 84	11 84
South	McElderry street	Castle street	185	150	14 41	18 74	33 15
North	McElderry street	Castle street	185	150	10 05	18 86	28 91
North	McElderry street	Alley W. of Castle st.	75	51	3 95	6 77	10 72
East	Washington street	Alley south of Monument street	80	52	4 50	6 50	11 00
East	Washington street	Alley north of McElderry street	75	44	4 50	5 34	9 84

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Continued.

Location.			Square Feet.		Cost.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
East	Patterson Park ave...	Oliver street.....	401	200	$ 20 91	$ 23 01	$ 43 92
East	Harford avenue.....	Central avenue.....	1394	957	66 30	122 21	188 51
West	Bond street.....	Alley S. of Chase st.....	110	50	4 00	6 54	10 54
North	Biddle street	Washington street.....	197	160	12 62	18 68	31 30
East	Washington street.....	Biddle street.....	360	183	15 91	25 45	41 36
West	Patterson Park ave...	Mura street	150	122	6 21	16 08	22 29
West	Patterson Park ave...	Alley S. of Biddle st...	80	50	3 58	6 72	10 30
West	Patterson Park ave...	Alley N. of Chase st...	84	50	4 21	6 56	10 77
West	Patterson Park ave...	Cleveland Place.....	150	125	7 38	16 50	23 88
West	Patterson Park ave...	Hoffman street..	224	198	12 63	25 47	38 10
West	Patterson Park ave...	Oliver street	275	199	9 88	25 85	35 73
West	Patterson Park ave...	Lanvale street.....	142	168	9 58	22 15	31 73
South	Preston street.....	Luzerne street	250	210	16 42	27 38	43 80
West	Patterson Park ave...	Alley S. of Preston st.	78	50	5 25	6 55	11 80
West	Luzerne street.....	Preston street.....	287	198	13 80	23 19	36 99
South	Fayette street.....	Bradford street.....	75	61	5 80	8 45	14 25
South	Madison street	Alley east of Collington avenue.....	86	50	4 21	6 91	11 12
North	Madison street	Alley east of Collington avenue.....	80	52	4 63	6 42	11 05
North	McElderry street.....	Bradford street.....	144	62	4 63	8 35	12 98
North	Fayette street.....	Rose street.....	144	120	8 21	15 12	23 33
North	Fayette street..	Bradford street.	63	60	3 58	7 82	11 40
North	Gough street.....	Madeira street	72	60	6 00	7 37	13 37

East	Collington avenue.....	Alley south of Bank st.	95	52	5 38	6 28	11 66	
West	Collington avenue.....	Alley south of Pratt st.	165	68	9 25	8 16	17 41	
South	Foster avenue	Port street.....	153	88	8 21	10 75	18 96	
North	Foster avenue.	Port street.....	172	88	8 42	10 75	19 17	
South	Fait avenue.....	Rose street.....	210	150	12 43	18 80	31 23	
South	Fait avenue.....	Grove street.....	164	120	8 21	15 21	23 42	
South	Fait avenue	Alley east of Grove st.	60	52	4 20	6 64	10 84	
North	Hudson street.....	Alley west of Chesapeake street.....	72	60	4 21	7 74	11 95	
East	Lakewood avenue.....	O'Donnell street.....	286	150	11 38	19 18	30 56	
South	O'Donnell street.....	Binney street.....	180	151	9 88	19 18	29 06	
East	Lakewood avenue.....	O'Donnell street.....	348	150	16 62	20 03	36 65	
South	O'Donnell street.....	Harris street.....	72	60	4 20	7 64	11 84	
North	Hudson street.....	Grove street.....	135	120	7 80	14 99	22 79	
North	Fait avenue	Port street.....	55	60	6 00	7 76	13 76	
South	Fait avenue	Alley east of Port st...	110	50	4 20	6 30	10 50	
South	Gough street.....	Herring court	35	40	3 58	5 15	8 73	
North	Canton avenue.....	East Falls avenue.....	165	137	10 22	17 25	27 47	
South	Pratt street.....	Alley W. of Exeter st.	60	53	4 62	6 87	11 49	
South	Biddle street.....	Proctor alley.....	72	60	4 63	6 96	11 59	
South	Biddle street	Alley east of Greenmount avenue.....	65	43	4 20	5 08	9 28	
West	Clifton Place.....	Biddle street.....	235	198	16 63	24 52	41 15	
West	Clifton Place.....	Alley N. of Chase st...	59	50	4 62	6 19	10 81	
East	Barclay street.....	Alley N. of Chase st...	80	50	6 00	6 57	12 57	
East	Barclay street.....	Alley S. of Biddle st...	74	54	6 00	6 95	12 95	
North	Preston street.....	Alley W. of Greenmount avenue.....	145	97	8 42	12 38	20 80	
South	Lanvale street.....	Latrobe street.....	96	60	8 22	7 58	15 80	
West	Barclay street	Alley S. of Lafayette avenue	96	45	7 80	6 29	14 09	
South	Lanvale street..	Hargrove alley.....	110	68	6 63	8 67	15 30	
North	Lanvale street.....	Latrobe street.....	165	82	8 42	9 09	17 51	
West	Barclay street	Alley S. of Lanvale st.	80	50	6 63	6 40	13 03	

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Continued.

Location.			Square Feet.		Cost.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
East	Barclay street	Alley S. of Federal st.	80	51	$ 4 42	$ 6 97	$ 11 39
East	Barclay street	Alley S. of Pinckney Place	80	51	4 20	7 02	11 22
West	Barclay street	Alley S. of North ave.	56	45	4 62	6 24	10 86
West	Barclay street	Alley S. of Federal st	100	50	4 96	6 88	11 84
South	Lafayette avenue	Alley E. of Morton st	90	50	6 00	6 48	12 48
South	Lafayette avenue	Alley W. of Morton st.	60	49	4 62	6 06	10 68
West	Guilford avenue	Alley S. of Preston st.	90	50	6 00	6 49	12 49
West	Guilford avenue	Alley N. of Biddle st.	60	50	5 38	6 49	11 87
West	Bond street	Alley N. of Chase st	65	50	3 58	6 40	9 98
South	Oliver street	Alley E. of Broadway.	54	50	4 20	6 29	10 49
North	Preston street	Alley east of Patterson Park avenue	70	51	4 20	6 67	10 87
West	Wolfe street	Alley S. of Chase st.	85	54	4 62	6 94	11 56
North	Ashland avenue	Chester street	165	210	7 80	27 48	35 28
North	Eager street	Castle street	98	92	8 84	11 52	20 36
South	Ashland avenue	Alley at 2001	45	50	5 25	6 67	11 92
North	Washington street	Ashland avenue	175	198	11 38	23 54	34 92
North	Ashland avenue	Chapel street	65	62	4 62	7 81	12 43
South	Ashland avenue	Alley E of Wolfe st.	50	47	4 46	6 43	10 89
South	Ashland avenue	Alley west of Washington street	10	48	3 58	6 27	9 85
South	Ashland avenue	Chapel street	95	60	4 20	7 65	11 85
North	Ashland avenue	Durham street	115	101	8 22	12 61	20 83

South	Ashland avenue	Alley W. of Chester st.	65	45	4 20	5 91	10 11
North	Ashland avenue	Alley W. of Chester st.	85	53	4 20	6 62	10 82
East	Patterson Park ave	Hoffman street	250	198	12 42	24 94	37 36
South	Hoffman street	Alley east of Patterson Park avenue	45	50	4 20	6 45	10 65
East	Montford avenue	Federal street	375	300	18 71	37 49	56 20
North	Federal street	Montford avenue	285	210	12 47	26 65	39 12
West	Montford avenue	Federal street	425	300	18 71	37 87	56 58
South	Lafayette avenue	Bethel street	128	104	7 79	12 84	20 63
North	Chase street	Alley E of Broadway	70	57	4 21	7 39	11 60
South	Chase street	Alley E. of Broadway	85	60	4 63	7 71	12 34
North	Madison street	Durham street	85	60	4 63	7 77	12 40
North	Jefferson street	Bethel street	85	60	4 21	7 36	11 57
North	Madison street	East of Broadway	124	85	7 80	11 05	18 85
North	Orleans street	Bradford street	96	72	7 80	9 13	16 93
South	Orleans street	Bradford street	96	57	4 21	7 79	12 00
North	Jefferson street	Duncan alley	94	60	4 63	7 96	12 59
South	Orleans street	Alley west of Montford avenue	72	46	3 80	6 11	9 91
South	Fayette street	West of Milton avenue	65	50	3 80	6 41	10 21
East	Milton avenue	Alley N. of Baltimore st	60	50	3 17	6 34	9 51
East	Milton avenue	Alley N. of Fayette st.	52	49	4 21	5 99	10 20
West	Chester street	South of Fayette st	54	54	3 17	6 55	9 72
North	Fairmount avenue	Alley east of Montford avenue	96	50	3 80	6 22	10 02
West	Patterson Park ave	Lamley street	55	60	4 21	7 39	11 60
North	Fairmount avenue	Alley W. of Milton av.	65	50	3 80	6 22	10 02
East	Castle street	Bohemia court	65	50	4 21	6 30	10 51
East	Chester street	Alley S. of Fayette st.	90	51	4 21	6 25	10 46
West	Chester street	Lamley street	105	80	6 55	9 76	16 31
North	Ashland avenue	Alley east of Wolfe st.	55	50	3 80	5 98	9 78
South	Chase street	Castle street	125	98	8 00	11 97	19 97
East	Collington avenue	Alley N. of Jefferson st	75	47	8 63	5 66	14 29
North	Eastern avenue	Chapel street	64	60	4 63	7 69	12 32

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Continued.

Location.			Square Feet.		Cost.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brich.	Labor.	Material.	Total.
South	Eastern avenue	Chapel street	40	58	$ 3 58	$ 6 55	$ 10 13
North	Eastern avenue	Alley west of Patterson Park avenue	60	48	4 21	6 17	10 38
North	Lombard street	Chapel street	50	58	4 21	7 37	11 58
West	Montford avenue	Alley S. of Eastern av.	75	42	4 63	5 35	9 98
East	Montford avenue	Alley S. of Eastern av.	135	99	8 42	12 61	21 03
East	Luzerne street	Alley S. of Fait ave.	45	49	3 58	6 29	9 87
West	Luzerne street	Alley S. of Fait ave.	50	49	3 58	6 13	9 71
South	Foster avenue	Luzerne street	258	210	13 05	26 68	39 73
North	Foster avenue	Luzerne street	265	210	13 05	26 68	39 73
North	Hudson street	Alley W. of Luzerne st.	60	52	3 58	6 46	10 04
East	Cannon street	Alley N of Hudson st.	60	52	4 63	6 70	11 33
North	Hudson street	Cannon street	196	210	12 00	23 70	35 70
North	Hudson street	Glover street	207	116	9 25	15 13	24 38
South	Hudson street	Streeper street	98	121	7 38	15 29	22 67
North	Dillon street	Chesapeake street	198	186	12 00	21 48	33 48
West	Patterson Park ave.	Alley S. of Pratt street.	75	49	4 63	5 85	10 48
North	Hudson street	Alley E. of Cannon st.	80	50	4 83	6 12	10 95
West	Ann street	Lancaster street	118	84	10 13	10 17	20 30
West	McCulloh street	Alley N. of North ave.	87	74	8 83	10 15	18 98
West	Whitelock street	Etting street	176	120	13 12	14 56	27 68
West	Division street	Baker street	312	195	16 63	24 59	41 22
North	Presstman street	Brunt street	159	105	7 66	13 78	21 44
North	Riggs avenue	Alley S. of Fulton ave	87	72	5 29	9 40	14 69

South	Riggs avenue	Alley S. of Fulton ave.	60	50	3 68	6 67	10 35
South	Riggs avenue	Alley W. of Mount st.	74	48	3 87	7 02	10 89
North	Riggs avenue	Alley W. of Mount st.	74	48	3 83	6 84	10 67
North	Riggs avenue	Vincent street	90	63	4 98	8 47	13 45
South	Riggs avenue	Alley W. of Gilmor st.	78	50	3 95	6 93	10 88
East	Monroe street	Alley N. of Riggs ave.	86	45	3 96	6 10	10 06
East	Monroe street	Alley S. of Riggs ave.	88	48	4 26	6 32	10 58
East	Monroe street	Alley N. of Mosher st.	90	50	4 40	6 57	10 97
East	Monroe street	Alley N. of Lanvale st.	86	46	4 00	6 02	10 02
East	Monroe street	Alley S. of Lanvale st.	50	105	8 83	6 27	15 10
West	Appleton street	Lanvale street		198	12 73	26 02	38 75
East	Payson street	Alley N. of Lanvale st	56	50	4 40	6 56	10 96
North	Lafayette avenue	Kirby lane	90	60	4 87	7 97	12 84
South	Lafayette avenue	Kirby lane	90	60	4 87	7 98	12 85
East	Gilmor street	Alley N. of Lanvale st.	72	45	3 70	6 05	9 75
West	Gilmor street	Alley N. of Lanvale st.	60	38	3 19	5 38	8 57
East	Mount street	Alley south of Lafayette avenue	78	50	3 92	6 76	10 68
West	Mount street	Alley north of Lafayette avenue	80	57	4 50	7 66	12 16
East	Mount street	Alley N. of Harlem ave	75	48	3 75	6 38	10 13
East	Mount street	Alley S. of Lanvale st.	90	60	4 46	7 93	12 39
East	Mount street	Alley S. of Harlem ave	75	47	3 50	6 38	9 88
East	Mount street	Alley north of Edmondson avenue	90	60	4 37	7 77	12 14
North	Lanvale street	Vincent street	90	60	4 38	7 96	12 34
North	Lanvale street	Bruce street	90	60	4 38	8 09	12 47
East	Payson street	Alley N. of Harlem ave	82	52	4 18	6 75	10 93
West	Appleton street	Alley S. of Harlem ave	81	50	4 15	6 51	10 66
East	Appleton street	Alley S. of Harlem ave	81	50	4 15	6 50	10 65
South	Mosher street	Alley E. of Gilmor st.	81	50	4 15	6 50	10 65
South	Mosher street	Parrish alley	98	60	5 49	8 18	13 67
North	Mosher street	Parrish alley	126	71	6 56	8 77	15 33
North	Mosher street	Alley W. of Stricker st	90	50	4 57	6 86	11 43

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Continued.

Location.			Square Feet.		Cost.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
South	Mosher street	Alley E. of Stricker st	70	52	$ 4 05	$ 6 69	$ 10 74
North	Mosher street	Alley E. of Stricker st	62	47	3 74	6 19	9 93
South	Mosher street	Whatcoat street	90	60	4 67	7 88	12 55
North	Mosher street	Whatcoat street	90	60	4 67	7 96	12 63
South	Mosher street	Alley W. of Gilmor st.	84	52	4 22	6 47	10 69
South	Mosher street	Alley east of Mount st.	60	44	3 61	5 68	9 29
East	Calhoun street	Smith street	94	58	4 74	7 79	12 53
South	Riggs avenue	Alley E. of Gilmor st.	70	50	4 05	6 71	10 76
West	Calhoun street	Alley S. of Mosher st.	88	52	4 32	7 20	11 52
East	Calhoun street	Alley S. of Mosher st.	62	46	3 91	6 39	10 30
North	Riggs avenue	Alley E. of Calhoun st.	84	50	4 20	6 83	11 03
North	Riggs avenue	Alley west of Carey st.	84	50	4 20	6 82	11 02
North	Riggs avenue	Alley east of Carey st.	90	49	4 69	6 57	11 26
East	Carrollton avenue	Smith street	205	76	7 33	10 20	17 53
South	Mosher street	Alley east of Carrollton avenue	85	47	4 60	6 06	10 66
West	Carey street	Alley N. of Lafayette avenue	82	47	4 26	6 19	10 45
East	Carey street	Alley S. of Mosher st.	85	50	4 50	6 54	11 04
East	Carey street	Alley N. of Mosher st.	71	45	4 05	6 19	10 24
West	Calhoun street	Alley S. of Lanvale st.	70	43	3 82	4 38	8 20
West	Arlington avenue	Smith street	77	53	4 25	6 73	10 98
West	Fremont avenue	Smith street	153	102	8 25	13 24	21 49

West	Carrollton avenue....	Alley N. of Lafayette avenue	76	51	4 12	6 53	10 65
North	Mulberry street.....	Alley east of Carey st..	113	50	5 90	6 89	12 79
North	Mulberry street.....	Alley E. of Gilmor st..	92	45	5 32	6 16	11 48
North	Mulberry street.....	Alley W. of Stricker st.	113	50	5 90	6 89	12 79
North	Franklin street.....	Alley E. of Gilmor st..	90	46	4 64	6 05	10 69
South	Franklin street.....	Bruce street.....	100	59	5 94	7 41	13 35
North	Franklin street.....	Bruce street.....	106	60	6 05	7 41	13 46
East	Monroe street.....	Alley N of Franklin st.	108	50	5 54	6 44	11 98
North	Rayner avenue.....	Florence street.....	216	150	11 08	19 28	30 36
East	Division street.....	Alley north of Gold st.	75	45	7 37	6 25	13 62
North	O'Donnell street.....	Harris street.....	86	60	8 83	7 45	16 28
West	Bruce street.....	Fayette street	256	197	16 63	25 58	42 21
North	Lexington street.....	Pulaski street.....	365	196	16 62	25 07	41 69
South	Fayette street.....	Addison alley.....	175	80	7 80	10 12	17 92
East	Monroe street.....	Alley S. of Fayette st..	93	49	5 58	6 40	11 98
West	Monroe street.....	Alley S. of Fayette st..	104	50	5 81	6 44	12 25
East	Mount street.....	Alley S. of Fayette st..	90	45	5 23	5 75	10 98
East	Payson street.....	Alley S. of Pratt st	110	60	6 12	7 77	13 89
North	McHenry street.....	Alley W. of Payson st.	90	50	5 10	6 50	11 60
North	McHenry street.....	Alley E of Pulaski st.	95	53	5 41	6 69	12 10
North	Mary Anna street.....	Alley E. of Pulaski st.	68	47	3 97	6 35	10 32
North	Mary Anna street.....	Alley E. of Payson st..	76	50	4 25	6 92	11 17
North	Mary Anna street.....	Alley W. of Pulaski st.	76	50	4 19	6 70	10 89
South	Mary Anna street.....	Alley W. of Pulaski st.	76	50	4 22	6 86	11 08
North	Mary Anna street.....	Alley east of Smallwood street.....	97	48	5 43	6 32	11 75
North	Mary Anna street.....	Alley west of Smallwood street	93	46	5 32	6 06	11 38
South	Mary Anna street.....	Alley east of Smallwood street.....	125	51	5 88	6 82	12 70
West	Augusta avenue.....	Euclid avenue.....	135	115	8 82	17 56	26 38
West	Augusta avenue.....	Massachusetts avenue.	135	115	8 81	16 86	25 67
West	Augusta avenue.....	Connecticut avenue...	125	127	8 31	18 36	26 67

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Continued.

LOCATION.			SQUARE FEET.		COST.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
West	Augusta avenue	Baltimore avenue	110	116	8 31	17 51	25 82
East	Carey street	Sargeant street	185	100	12 42	16 05	28 47
West	Carey street	James street	320	195	16 63	25 39	42 02
East	Carey street	Alley north of Columbia avenue	93	50	5 30	6 72	12 02
South	Carroll street	Alley west of Cross st.	100	59	6 25	7 95	14 20
North	Carroll street	Alley west of Cross st.	92	48	5 08	6 69	11 77
North	St. Peter street	Callender alley	70	58	4 06	7 43	11 49
North	St. Peter street	Parkin street	125	100	6 60	12 54	19 14
South	St. Peter street	Parkin street	100	98	6 47	12 42	18 89
North	St. Peter street	Campbell street	175	80	7 87	10 17	18 04
South	St. Peter street	Campbell street	190	89	8 75	11 29	20 04
South	St. Peter street	Wyeth street	175	120	8 79	16 03	24 82
West	Cross street	Dexter street	135	107	7 84	14 40	22 24
South	Hamburg street	Alley west of Cross st.	75	50	3 78	6 61	10 39
North	Hamburg street	Alley west of Cross st.	75	50	3 78	6 63	10 41
North	Hamburg street	Burgundy alley	96	60	4 53	8 01	12 54
North	Hamburg street	Denver street	96	60	4 53	8 03	12 56
East	Fremont avenue	Claret alley	228	195	16 63	22 94	39 57
West	Fremont street	Raborg street	150	88	7 74	11 30	19 04
East	Fremont avenue	Alley north of Lexington street	83	51	4 48	6 58	11 06
East	Fremont avenue	Alley south of Saratoga street	82	50	4 40	6 49	10 89

East	Pine street	Sarah Ann street	60	59	4 62	7 57	12 19
West	Garrison avenue	Oakford avenue	42	108	6 23	14 60	20 83
North	Ridgewood avenue	Granada avenue	42	90	5 20	12 10	17 30
North	Fernhill avenue	Granada avenue	41	90	5 20	12 01	17 21
South	Fernhill avenue	Granada avenue		90	4 21	12 28	16 49
East	Granada avenue	Fernhill avenue	45	114	6 47	15 34	21 81
West	Granada avenue	Penhurst avenue	45	105	5 95	13 96	19 91
East	Calloway avenue	Springdale avenue	65	89	4 21	11 84	16 05
East	Calloway avenue	Fairview avenue	80	83	5 27	11 07	16 34
South	Calloway avenue	Fairview avenue	88	90	5 70	11 99	17 69
North	Calloway avenue	Fairview avenue	88	99	5 66	11 90	17 56
West	Calloway avenue	Fairview avenue	78	95	5 31	12 51	17 82
North	New Liberty Road	Calloway avenue	84	102	5 71	13 56	19 27
South	Old Liberty Road	Cleveland avenue	83	100	5 60	13 21	18 81
East	Cleveland avenue	Forest avenue	78	95	8 02	12 48	20 50
South	Cleveland avenue	Forest avenue	87	102	8 61	13 80	22 41
East	Linden avenue	North avenue	415	325	27 66	40 66	68 32
East	Greene street	Alley north of Mulberry street	60	46	4 42	5 83	10 25
East	York road	Twentieth street	296	196	16 62	25 14	41 76
South	Twentieth street	Garrett avenue	225	198	13 10	25 35	38 45
West	Guilford avenue	Alley S. of Biddle st	60	52	3 52	6 64	10 16
North	Clement street	Alley east of Covington street	98	53	5 08	6 79	11 87
North	Clement street	Alley W. of Jackson st.	90	50	4 80	6 37	11 17
West	Covington street	Alley N. of Fort ave	97	53	5 08	6 79	11 87
West	Covington street	Wehage street	150	104	10 51	13 52	24 03
West	Covington street	Alley N. of Wehage st.	60	49	4 86	6 46	11 32
North	Wehage street	Covington street	196	146	11 17	18 72	29 89
North	Wehage street	Henry street	192	120	9 25	15 56	24 81
East	Henry street	Wehage street	175	105	12 84	14 07	26 91
West	Covington street	Alley S. of Fort ave	65	53	4 88	6 92	11 80

ACCOUNT OF EXPENDITURES ON FOOTWAY CROSSINGS—Concluded.

Location.			Square Feet.		Cost.		
Side.	Streets, Etc.	Across.	Cobble-stone.	Vitrified Brick.	Labor.	Material.	Total.
North	Barney street	Alley E. of Charles st.	125	75	6 90	9 96	16 86
South	Barney street	Elizabeth street	75	57	5 34	7 77	13 11
South	Barney street	Patapsco street	176	121	11 72	15 37	27 09
South	Barney street	Alley E. of Charles st.	84	51	4 90	6 66	11 56
South	Barney street	Olive street	76	65	4 62	8 24	12 86
North	Barney street	Olive street	70	61	4 21	7 65	11 86
South	Heath street	Harmon alley	80	58	4 62	7 47	12 09
East	Charles street	Barney street	206	150	12 00	19 71	31 71
North	Heath street	Harmon alley	105	76	6 72	9 70	16 42
North	Heath street	Alley west of Hanover street	75	52	4 60	6 66	11 26
South	Heath street	Olive street	65	60	5 31	7 40	12 71
North	Heath street	Clarkson street	197	116	11 53	15 09	26 62
North	Randall street	Alley west of Hanover street	65	52	5 09	6 71	11 80
North	Randall street	Alley W. of Light st.	40	48	5 00	5 95	10 95
South	Randall street	Alley E. of Charles st.	56	52	5 42	6 56	11 98
South	Randall street	Clarkson street	195	120	13 54	14 90	28 44
North	Beverly street	Marshall street	137	116	8 20	14 36	22 56
North	Ostend street	Marshall street	138	119	8 42	14 63	23 05
West	Clarkson street	Fort avenue	178	196	13 21	24 59	37 80
South	Fort avenue	Alley W. of Fort ave.	60	50	3 41	6 42	9 83

East	Patapsco street.....	Beverly street.....	189	119	11 67	14 40	26 07
West	Patapsco street.....	Clement street.....	75	50	4 95	6 26	11 21
East	Patapsco street.....	Alley N. of Beverly st.	65	50	5 54	6 49	12 03
South	Beverly street.....	Alley E. of Patapsco st.	65	51	5 54	6 49	12 03
South	Ostend street.....	Alley W. of Light st...	65	51	5 54	6 49	12 03
North	Cross street.....	Compton street.....	75	59	5 75	6 81	12 56
South	Randall street.....	Alley W. of Hanover st	60	49	4 25	6 44	10 69
South	Randall street.....	Alley W. of Light st...	60	50	4 34	6 74	11 08
South	Randall street.....	Clayton court.....	120	99	8 55	12 97	21 52
North	Lexington street	Alley W. of Monroe st.	.....	198	8 83	24 41	33 24
South	Preston street	Collington avenue.....	258	210	9 43	25 68	35 11
			35,934	$26,480	$2,155 88	$3,390 10	$5,545 98

NEW FLAGSTONE FOOTWAYS.

Location.			Square Feet.		Cost.		
Side.	Streets, etc.	Across.	Flag-stone.	Cobble-stone.	Labor.	Material	Total.
		Double Rows.					
North	Carroll street	Stockholm street	198.78	365	$ 20 71	$ 59 64	$ 80 35
North	Sargeant street	Carey street	186.70	225	16 62	56 26	72 88
South	Exchange Place	Exchange alley	75 00	60	11 13	22 50	33 63
North	North avenue	Smallwood street	189 70	198	21 00	47 43	68 43
North	Linden avenue	Whitelock street	169 46	146	11 04	44 02	55 06
South	Second avenue	Cedar avenue	175.83		20 38	52 75	73 13
		Single Rows.					
North	Woodberry avenue	Parkdale avenue	56 16		7 25	16 85	24 10
	West of Railroad ave...	Woodberry avenue	41.33		6 50	12 40	18 90
			1,092 96	994	$114 63	$311 85	$426 48

STATEMENT OF EXPENDITURES ON ACCOUNT OF FOOTWAY CROSSINGS.

Appropriation		$6,000 00
Balance brought forward from 1902		88 99
		$6,088 99
Materials purchased 1903, vitrified blocks and flagstones	$3,148 95	
Materials purchased 1902	88 99	
Hauling	258 62	
Inspection	53 46	
Labor	2,182 66	
Outstanding requisition for blocks	254 21	
Vitrified blocks purchased and on hand	102 10	
		$6,088 99

OLD ASPHALT BLOCK FOOTWAYS—CHARGED TO ROADS, STREETS, ETC., AND CROSS STREETS.

Location.			Square Feet.		Cost.		
Side.	Streets, etc.	Across.	Flag-stone.	Cobble-stone.	Labor.	Material.	Total.
East	Payson street	Alley south of Lanvale street	50	132	$ 6 15	$ 40	$ 6 45
North	Riggs avenue	Alley east of Gilmor street	50	132	6 15	40	6 45
East	Mount street	Alley south of Lanvale street, extension to brick footway	35	60	4 33	15	4 48
North	Riggs avenue	Alley west of Carrollton avenue	50	82	6 00	28	6 28
West	Woodley street	Alley north of Lafayette avenue	50	83	6 00	27	6 27
East	Woodley street	Alley north of Lafayette avenue	50	96	7 80	27	8 07

Charged to Cross Streets, labor $16.63
Charged to Roads, Streets, etc., labor 19.80
Charged to Roads, Streets, etc., material 1.77

Location.			Square feet.		Cost.		
Side.	Streets, etc.	Across.	Flag-stone.	Cobble-stone.	Labor.	Material	Total.
		Double Rows.					
North	North avenue	Alley west of Pennsylvania ave.	60	15	$ 9 64		$ 9 64
East	Druid Hill avenue	Park Terrace	180	290	24 03		24 03
North	Presbury street	Friendsbury Place	195	473	45 83		45 83
South	Gold street	McCulloh alley	32	80	7 50		7 50
North	Gold street	Division street	176	350	21 25		21 25
East	Cromwell street	Twentieth street	326	200	28 84		28 84
		Single Rows.					
South	North avenue	Thomas avenue	68	100	14 96		14 96
South	North avenue	Braddish avenue	68	325	13 22		13 22
East	Woodbrooke avenue	Kensett street	12	40	4 17		4 17
East	Woodbrooke avenue	Alley south of Clifton avenue	18	36	3 50		3 50
South	Clifton avenue	Woodbrooke avenue	76	170	16 46		16 46
West	Woodbrooke avenue	Richland street	28	50	6 00		6 00
East	Woodbrooke avenue	Alley south of Fulton avenue	20	50	5 31		5 31
East	Tenth street	Beech avenue	40		6 70		6 70
North	Massachusetts avenue	Irving avenue	75		8 33		8 33
West	Irving avenue	Massachusetts avenue	87		10 50		10 50
South	McHenry street	Dawson alley	36	60	6 88		6 88

The following footway of old asphalt blocks was laid under permit, and at the expense of the abutting property owners, the city furnishing the blocks:

East	Carrollton avenue	Alley south of Harlem avenue	135 asphalt blocks.

NEW GUTTERPLATES.

Labor.	Material.	Total Cost.
	Aliceanna and Caroline streets.	
$ 3 33	$37 50	$40 83
	Canton avenue and Ann street.	
3 33	$43 65	46 98
	Caroline street and Eastern avenue.	
3 33	$58 80	62 13
	Conway and Hanover streets.	
1 67	$34 05	35 72

Charged to Repairs, Roads, Streets, etc $104 51
Charged to Paving and Repairing Cross Streets 81 15

REPAIRS TO GUTTERPLATES.

	S. E. Corner Randall and Light streets	
$ 2 00	30 (Cement)	$2 30
	Washington and Aliceanna streets	
46 17	$18 76	64 93
	Ann and Baltimore streets.	
26 60		26 60

The work at Baltimore and Ann streets consisted of replacing two large flagstones.

Charged to Repairs, Roads, Streets, etc $93 83

REPAIRS OF GRANOLITHIC GUTTERS.

The same plan of repairing granolithic gutters, as pursued the past two years, was continued this year. No repairs were needed to any vitrified brick gutters laid the past two years. The brands of cement used were Alpha and Germania, foreign Portland, the former as a sub-base for the vitrified bricks or blocks, and the latter as a top coating.

Total amount expended for labor $276 33
Total amount expended for material 124 28
$400 61

The following is a list of streets where this kind of gutter was either repaired or renewed with vitrified blocks or bricks, showing the amount expended for labor and material on each, viz:

Streets adjacent to the Richmond Market:

40 lin. ft. of gutter repaired.
20 sq. ft. of Belgian block repaired.
30 lin. ft. of vitrified brick gutter laid.
10 lin. ft, of new cement gutter laid.

Amount expended for labor	$19 32	
Amount expended for material	6 62	
		$25 94

Park avenue (west side) south of Richmond street:

12 lin. ft. of new cement gutter laid.

Amount expended for labor	$4 83	
Amount expended for material	1 93	
		$6 76

Lafayette avenue, from Stricker street to Fulton avenue:

35 lin. ft. of gutter repaired.
31 sq. ft. of asphalt block repaired.
41 lin. ft. of vitrified brick gutter laid.
6 lin. ft. of new cement gutter laid.

Amount expended for labor	$22 11	
Amount expended for material	5 30	
		$27 41

Saratoga street, from Cathedral street to Fremont avenue:

290 lin. ft. of gutter repaired.
167 sq. ft. of asphalt block repaired.
20 sq. ft. of Belgian block repaired.
883 lin. ft. of vitrified brick gutter laid.
300 lin. ft. of new cement gutter laid.

Amount expended for labor	$191 28	
Amount expended for material	98 76	
		$290 04

Lexington street, from Arch street to Fremont avenue:

90 lin. ft. of gutter repaired.
85 lin. ft. of vitrified brick gutter laid.
107 lin ft. of new cement gutter laid.

Amount expended for labor	$36 38	
Amount expended for material	10 77	
		$47 15

Baltimore street, east from Washington street:

25 lin. ft. of new cement gutter laid.

Amount expended for labor	$2 41	
Amount expended for material	90	
		$3 31

REPAIRS TO ROADS, ETC.

Road, etc.	Between.	Description of work.
Jenkins lane.	Cromwell street and Harford road.	Cleaned gutters, filled washouts, and repaired roadbed with new broken stone, old cobblestones and cinders.
Jefferson street.	Tinges' lane and Independent street.	Repaired roadbed with old cobblestone and cinders, and cleaned gutters
Old York road.	York road and city limit.	Repaired roadbed with new broken stone, old cobblestone, spawls and cinders; cleaned gutters; lowered grade in rear of engine house on the York road, between Gorsuch avenue and the Old York road; repaired broken drain pipes and gutters; paved a footway crossing of Belgian blocks across road at Chestnut Hill avenue; extended 15-inch pipe at Carroll avenue, and laid 18-inch drain pipe across Kennedy avenue.
Liberty street.	Gorsuch avenue and Jefferson street.	Cleaned gutters.
Merryman's avenue.	Falls road and York road.	Cleaned gutters and repaired roadbed with cinders and gravel.
Philadelphia road.	Lakewood avenue and Loney's lane.	Cleaned gutters and repaired roadbed with new broken stone.
Canton street.	Fairmount avenue and Philadelphia road.	Tore out old wooden box extending south from culvert at the intersection of the Philadelphia road, and replaced same with 24-inch terra-cotta pipe; cleaned gutters and repaired road with cinders.
Loney's lane.	Philadelphia road and city limit.	Repaired washouts, cleaned gutters and repaired roadbed with old cobblestones and cinders.

Delwood avenue.	Falls road and Druid Mill.	Built bulkhead west of Conduit avenue, filled in washouts and repaired roadbed with hard pan and cinders.
Thirty-first street.	St. Paul and Barclay streets.	Laid cinder path along north side of road, and planted wooden stakes at intervals of ten feet.
Friendship street.	York road and Reese street.	Repaired roadbed with cobblestone, gravel and cinders, and cleaned gutters.
Independent street.	Friendship street and Gorsuch avenue.	Cleaned gutters.
Montebello avenue	Gorsuch avenue and Old York road	Cleaned gutters; repaired water box at Walpert avenue, and repaired roadbed with broken stone and cinders.
Reese street.	Oxford avenue and Friendship street.	Cleaned obstruction from bridge; repaired street with spawls and new broken stone
Huntingdon avenue		Laid flag row on west side across Twenty-eighth street; paved gutter on east side at Twenty-seventh street.
Twenty-eighth st.	Huntingdon avenue and Bernard street.	Graded street bed.
Frisby street	Oxford avenue and B. & O. R.R.	Cleaned gutters
Oxford avenue.	York road and Reese street.	Cleaned gutters, repaired paved gutters, and repaired roadbed with old cobblestones, spawls, new broken stone and cinders.
Chestnut Hill ave.	York road and Tinges lane.	Cleaned gutters, and repaired roadbed with cinders and gravel.
Mine Bank lane.	Lanvale street and North avenue.	Repaired roadbed with old cobblestones and cinders, and opened gutters
Sinclair avenue.	Gay street and Loney's lane.	Opened gutters and drain pipes, and repaired roadbed with old cobblestones, new broken stone and cinders
Biddle street		Repaired big washout in the intersection of Patapsco street.
Twenty-fifth street.	Huntingdon avenue and York road.	Repaired roadbed with new broken stone, gravel and cinders, repaired cobble paving and opened gutter.

REPAIRS TO ROADS, ETC.—Continued.

Road, etc.	Between.	Description of Work.
Brady avenue.	York road and Reese street.	Opened gutters, repaired pavement, and repaired roadbed with old cobblestones, new broken stone, gravel and cinders.
Gorsuch avenue.	Independent and Liberty streets.	Opened gutters.
Gorsuch avenue.	Polk street and Harford road.	Replaced old cement drain pipe with new 30-inch terra cotta one.
Twenty-fourth st.	Charles and Oak streets.	Repaired paved gutter and street bed.
Twenty-fourth st	Barclay street and York road.	Repaired roadbed with old cobblestones and gravel.
Cedar avenue.		Filled washout and built drain-box and bulkhead at Fourth avenue; opened gutters and repaired roadbed with gravel and cinders, and laid flag row from southwest corner to southeast corner of Second avenue.
Remington avenue.	First avenue and Marine Hospital.	Repaired slopes and fences.
Jefferson Place.		Repaired big washout at Twenty-third street.
Falls road.	Third avenue and Merryman's lane.	Filled washouts, paved gutter on east side south of Merryman's avenue, and repaired roadbed with gravel and cinders.
Twenty-second st.	Old York road and Cromwell street.	Set kerbstone, paved gutter and repaired street bed
Erdman avenue.	Belair and Harford roads.	Opened gutters and repaired roadbed with new broken stone, old cobblestones and cinders.
Monument street.	Lakewood and Milton avenues.	Spread old cobblestone and opened gutters.
Union avenue.	Falls road and Jones Falls.	Repaired roadbed with new broken stone, hard pan, gravel and cinders, and repaired paved gutters.

Oak street.	Twenty-third and Twenty-fourth streets	Replaced 4½-inch kerbstone with 6-inch kerbstone, in front of Women's College power-house.
Hickory avenue.	Third and Roland avenues.	Repaired washouts in roadbed with gravel
Fifth avenue.	Hickory avenue and Falls road.	Repaired road with new broken stone and cinders, and repaired paved gutters.
Twenty-third st.	Guilford avenue and Calvert street.	Repaired roadbed with old cobblestones and gravel.
Maryland avenue.	Twenty-eighth and Twenty-ninth streets.	Repaired washout and Belgian block paving, and built drain-box across Twenty-ninth st
Gilmore lane.		Open terra-cotta drain-pipes at Barclay street.
Barclay street.	Thirty-first street and Merryman's ave.	Repaired roadbed with gravel and opened gutters.
Wilkens avenue.	Millington avenue and city limit.	Repaired roadbed with some broken stone, the old fence, cleaned gutters and filled in washouts.
Millington avenue.	Wilkens avenue and Frederick turnpike.	Repaired roadbed with broken stone and rolled same with steam road roller, also cleaned gutters.
Caton avenue.	Wilkens avenue and Frederick turnpike.	Filled in washouts repaired roadbed with broken stone and cleaned gutters.
Old Frederick road.	Frederick road and city limit.	Repaired roadbed with broken stone and cleaned gutters.
Massachusetts ave.	Loudon and Augusta avenues.	Shaped up roadbed and deepened dirt gutters.
Culver street.	Old Frederick road and Dorsey's lane.	Filled in washouts, shaped up roadbed, and opened gutters.
Garrison lane.	Frederick turnpike and Edmondson ave.	Repaired roadbed between the turnpike and Baltimore street with broken stone, and rolled it with steam road roller. Cleaned gutters the balance of the way.
Payson street.	Frederick avenue and Hollins street.	Filled in washouts, shaped up roadbed, and opened gutter-ways on both sides of the street.

REPAIRS TO ROADS, ETC.—Continued.

Road, etc.	Between.	Description of Work.
Hollins lane.	Calverton road and Landwehr lane.	Replaced the old wooden covered gutter-way on the south side with 18-inch D. S. terra cotta pipe for a distance of 198 feet, west from inlet; also repaired bulkhead of old ties along gutter on north side of lane.
Calverton road.	Hollins street and Franklin street.	Repaired roadbed with rotten rock and gneiss broken stone and deepened gutters on sides.
Calverton road.	Franklin street and Edmondson avenue.	Cleaned gutters.
Edmondson avenue.	P., W. & B. R. R. crossing and Calverton road.	Placed broken stone on the roadbed, covered it with cinders, then rolled it with steam road roller; also deepened gutters and opened breakwater drain pipes on sides of road.
Edmondson avenue.	Calverton road and city limit.	Cleaned and deepened the gutters, and repaired the roadbed in places with broken Gabbro stone washed into gutters
Franklin street.	Payson street and Calverton road.	Repaired the roadbed with gneiss broken stone wherever needed, covered the stone with a layer of cinders and deepened gutters on sides.
Monroe street.	At a point north of Saratoga street.	Removed dirt obstructing gutter on west side of Monroe street, to prevent carts and wagons from crossing over the kerb
Lafayette avenue.	P..W. & B. R. R. crossing and Florence st.	Filled in washouts, repaired roadbed and cleaned gutters.
Mosher street.	Intersection of Appleton street.	Filled in dirt cross-gutter with rotten rock to prevent wagons miring in it.
Friendsbury Place.	Intersection of Presbury street.	Paved a gutter across Friendsbury Place north side of Presbury street; also the unpaved area from this gutter to the north building line.

Friendsbury Place.	Intersection of Northwest street.	Shaped up the unpaved roadbed, cleaned and deepened gutters.
Baker street.	East of Fulton avenue.	Placed some rotten rock upon the unpaved roadbed.
North avenue.	Carey and Payson streets.	Repaired the cobblestone gutters and pavement wherever needed.
North avenue.	Payson and Tenth streets.	Filled in washouts, cleaned gutters and repaired the macadamized roadbed wherever needed with a layer of Gabbro broken stone, then sprinkled it with water, and rolled it with the steam road roller. The north side from a point east of Ninth street to a point east of Tenth street was graded to the full width, and the gutter-way moved to the proper line.
Northwest street.	Eighth and Ninth streets.	Filled in washouts, repaired wooden shute and shaped up roadbed.
Morris avenue.	Tenth street and the Franklin turnpike.	Repaired the roadbed with a small quantity of Gabbro broken stone, and cleaned and deepened the gutters wherever needed.
Ninth street.	Northwest street and Walbrook avenue.	Cleaned gutters and repaired that portion between North and Walbrook avenues with rotten rock, sprinkled it with water, and rolled it with steam road-roller.
Tenth street.	North and Beech avenues.	Cleaned gutters and shaped up roadbed.
Twelfth street.	North and Clifton avenues.	Cleaned gutters.
Clifton avenue.	Chelsea terrace and Thirteenth street.	Filled in washouts and cleaned gutters.
Windsor Mill road.	Thirteenth street and city limit.	Repaired roadbed with Gabbro broken stone, rolled it with steam road roller, cleaned and deepened gutters and filled in washout.
Walbrook avenue.	Thirteenth street and Slingluff avenue.	Repaired the roadbed, cleaned gutters, and filled in washouts.
Eighth street.	North and Walbrook avenues.	Graded and shaped up roadbed, straightened and cleaned gutters.

REPAIRS TO ROADS, ETC.—Concluded.

Road, etc.	Between.	Description of Work.
Seventh street.	North and Walbrook avenues.	Shaped up roadbed and cleaned gutters.
Beech avenue.	Slingluff avenue and Liberty turnpike.	Shaped up roadbed, cleaned and deepened gutters.
Slingluff avenue.	Liberty turnpike and Old Liberty road.	Repaired the macadamized roadbed and cleaned gutters.
Old Liberty road.	Slingluff avenue and Liberty turnpike.	Repaired the macadamized roadbed and cleaned gutters.
Calloway avenue.	Liberty turnpike and Old Liberty road.	Repaired drain boxes and cleaned gutters
Fairview avenue.	Calloway avenue and Liberty turnpike.	Shaped up the dirt driveways and cleaned gutters.
Springdale avenue.	Calloway avenue and Liberty turnpike.	Cleaned gutters.
Cleveland avenue..	Springdale avenue and Old Liberty road.	Shaped up roadbed and cleaned gutters. Eighty lin. ft. of 10-inch terra cotta pipe was laid from the northeast corner of Cleveland and Springdale avenues, across and under the bed of the Liberty turnpike, at the expense of Mr. Calloway, the city furnishing the pipe.
Forest avenue.	Garrison and Calloway avenues.	Cleaned gutters.
Garrison avenue.	Liberty turnpike and city limit.	Placed some Gabbro broken stone wherever needed, and cleaned gutters.
Fernhill avenue.	Garrison and Granada avenues.	Roadbed shaped up, and gutters cleaned.
Penhurst avenue.	Garrison and Granada avenues.	Cleaned and deepened gutters.
Ridgewood avenue.	Garrison and Granada avenues.	Cleaned and deepened gutters.
Granada avenue.	Oakford avenue to city limit.	Cleaned and deepened gutters.
		All alleys in West Arlington being public, were also put in good shape, and gutters cleaned.

Kate avenue.	Garrison avenue and Pimlico Boulevard.	The dirt roadbed was put in good shape, and gutters cleaned; the macadamized portion repaired with some Gabbro broken stone, and a line of 24 lin. ft. of 24-inch D. S. terra cotta pipe laid across Kate avenue, east side of Reistertown turnpike. That part of Kate avenue east of turnpike to Pimlico Boulevard was then opened to the public.
Woodberry avenue.	Railroad avenue and Reisterstown t'pike.	Filled in washouts, repaired inlet, cleaned gutters and laid 30 lin. ft. of 12-inch terra cotta pipe on north side of avenue near northwest corner of Druid Hill Park fence to divert water from flowing over the roadbed.
Woodbrooke avenue	Fulton avenue and Retreat street.	Repaired cobblestone pavement and gutters.
Francis street.	Fulton avenue and Retreat street.	Repaired cobblestone paved gutters.
Druid Hill avenue.	Park Terrace and Druid Hill avenue.	Repaired cobblestone paved gutters.

The following is the amount and character of cobblestone repairs done, viz :

9,523 sq. ft. of cobblestone repaved.
697 lin. ft. of gutterstone reset.
20 lin. ft of kerb reset.
225 sq. ft. of flagstone reset.
20 sq. ft. of Belgian block repaved.
35 lin. ft. of new 4½-inch kerb set.

Following are the expenditures for repairs to the above enumerated macadam roads—

Labor	$7,385 05	
Material	4,594 68	
		$11,979 73

PIMLICO BOULEVARD.

The roadbed of this avenue from the Reisterstown turnpike to the northern city limit (a few places excepted) was resurfaced with Gabbro broken stone of a size two inches for a width of from twenty to twenty-two feet and to a depth varying from four to six inches, and thoroughly rolled it with a twelve-ton steam-roller. Upon this sub-base a layer of from one to one and a-half inch broken stone of the same quality was spread, wetted and rolled.

The whole surface was then covered with a thin topping of screenings, and again rolled.

The few places in fairly good condition were patched, and the gutters for the entire length were cleaned.

The cost of resurfacing the avenue, and which is included in the total amount for repairs to macadam roads, is as follows:

For labor	$ 838 54	
For material, 2,151.89 cu. yds. Gabbro broken stone	4,088 58	
		$4,927 12

NEW WORK.

Twenty-fourth and Barclay streets.

The intersection of Twenty-fourth and Barclay streets was graded and paved with cobblestones:

Expended for labor	$158 46	
Expended for material	103 04	
		$261 50

Charges:

Repairs to Roads, Streets, etc.	$209 18	
Paving and Repairing Cross Streets	52 32	
		$261 50

Preston street and Collington avenue.

The kerbstone across Collington avenue on the south side of Preston street was removed. Kerbstones were set on the east and west sides of Collington avenue, from the south building line to the south kerb line of Preston street; a new vitrified brick footway was laid, and the balance of the intersection was paved with cobblestones:

Expended for labor	$30 30	
Expended for material	29 51	
		$59 81

Charges:

Repairs to Roads, Streets, etc.	$34 13	
Footway Crossings	25 68	
		$59 81

MINE BANK LANE AND TOWNSEND STREET.

In accordance with an agreement made in quadruplicate February 19, 1903, between Frank Ruckle, Eben B. Hunting, the Baltimore Cemetery Company and John Muller, all of the first part; and the Mayor and City Council of Baltimore of the second part, to control the flood of water discharged from Baltimore Cemetery into Mine Bank lane and prevent same from overflowing said lane and flooding the cellars of property fronting on Milton avenue, the city did the work reported below, the members of the first part having performed their portion of the agreement:

Graded and paved, with cobblestones, a twelve (12) foot alley extending from Milton avenue about eighty (80) feet north of Townsend street, easterly one hundred and twenty-five (125) feet to Mine Bank lane; paved with cobblestones another twelve (12) foot alley, extending from the east end of the last mentioned alley one hundred and thirteen (113) feet southerly and parallel to Mine Bank lane; graded and paved with cobblestones an eight (8) foot alley extending from Milton alley about one hundred and sixty-five (165) feet south

of Townsend street, easterly one hundred and twenty-five (125) feet to Mine Bank lane; constructed a 15-inch terra-cotta drain across Mine Bank lane at the south end of the last mentioned 12-foot alley; constructed a twelve (12) inch terra-cotta drain in the eight (8) foot alley easterly from the east building line of Milton avenue to the east side of Mine Bank lane, with a ten (10) inch opening to take the water from the west side of Mine Bank lane, and another about seventy-five (75) feet from Milton avenue, to take the water from a proposed alley which is to extend southerly parallel to the lane; built a brick outlet, covered with blue stone flag, across the Milton avenue sidewalk opposite the eight (8) foot alley; set kerb across Townsend street on the east side of Milton avenue, and reset the kerb and gutterstone on the east side of Milton avenue northerly from Townsend street to the first mentioned twelve (12) foot alley.

The itemized statement of work and expenditures on the above is as follows:

Pay rolls	$382 75	
Bills	228 72	
Labor on—		
5013 sq. ft. cobblestone paved.		
364 lin. ft. gutterstone set		
114 lin. ft. kerbstone reset.		
140 sq. ft. flagstone reset.		
130 lin. ft. 12-in. terra-cotta pipe laid.		
8 lin. ft. 10-in. terra-cotta pipe laid.		
24 lin. ft. 15-in. terra-cotta pipe laid.		
2-12x10 in. terra-cotta "T's" set.		
500 bricks laid.		
40 sq. ft. blue stone walk laid, and		
200 cu. yds. clay excavated		$382 75
80 perches cobblestone		144 00
22 cu. yds. paving sand		15 40
500 bricks		4 13
40 sq. ft. blue stone walk		17 60
130 lin. ft. 12-in. terra-cotta pipe		32 62
8 lin. ft. 8-in. terra-cotta pipe		1 80
24 lin. ft. 15-in. terra-cotta pipe		10 37
2-12x10 in. terra-cotta "T's"		2 80
	$611 47	$611 47

COMPARATIVE AMOUNTS AND COST OF WORK DONE IN 1902 AND 1903.

Various Kinds of Work.	Square Feet.		Per Square Foot.		Total Cost.	
	1902.	1903.	1902.	1903.	1902.	1903.
Cobblestone repaving	2,428,599.00	1,443 396.00	$0.0373	$0.0428	$90,679 99	$61,908 34
Belgian block repaving	178,866.00	10,975.00	0.0417	0 0508	7,458 71	557 61
Mosaic block repaving	.....	105.00	.....	0.042	.....	4 41
Asphalt block repaving, small patches not included	155,837.16	125,764.74	0.1114	0.1106	17,359 55	13,910 29
Vitrified brick repaving	29,418.75	107.01	0.1037	0.132	3,052 58	14 17
Sheet asphalt repaving	19,286.10	150,714.54	0.2398	0.2556	4,625 39	38,523 81
Old flagstone reset	33,081.00	11,814.53	0.834	0.085	2,758 96	1,004 24
New flagstone set	617.80	225 47	0 3334	0.385	205 97	86 80
Mosaic block paving	16,245.00	46,581.93	0 1003	0.0744	1,630 47	3,471 09
New vitrified brick footway crossings	20,961.90	26,479.90	0.1911	0.2104	4,008 96	5,573 60
New flagstone footway crossings	.....	1,092.96	.....	0.3902	.....	426 48
	Linear Feet.		Per Linear Foot.			
Old gutterstone reset	104,409.30	42,909 00	$0.0328	$0.034	3,424 63	1,458 90
New standard gutterstone set	20,620.50	14,837.90	0.2828	0.334	5,831 47	4,955 86
New hammered gutterstone set	7,426.20	7,286 10	0.2328	0 284	1,728 82	1,986 76
Old 4½-inch kerbstone reset	69,284 10	28,079.50	0 0707	0.072	4,838 39	2,021 71
New4 ½-inch kerbstone set	6,899.40	3,142.60	0.6525	0.672	5,454 59	2,088 27
New 4½-inch kerb circles set	106.00	15.33	1.30	1.35	137 86	20 69
New hammer dressed gutterstone	.....	50 00	.....	0.234	.....	11 70

RECAPITULATION.

In Account for Repairs of Roads, Streets, Etc.

Repairs to cobble-paved streets by large gangs	$ 76,105 32
Repairs to cobble-paved streets by small gangs	8,324 50
Repairs and renewals to asphalt block paved streets	13,988 46
Repairs to sheet asphalt paved streets	39,048 37
Repaving of Light street, between Pratt and Lee streets	18,423 40
Laying of mosaic pavement	4,793 15
Laying pipe line at engine house, Old York road and Tinges lane	212 46
Repairs to vitrified brick pavements	13 13
Repairs to granolithic gutters	400 61
Repairs to macadam roads	11,979 73
Repairs to Harman's road	1,079 45
Placing new gutterplates	104 51
Repairs to gutterplates	93 33
Changing large gutterplates foot of Broadway	97 81
Opening dirt gutter on north side of Ward street	40 63
Repairs to three-foot open gutterstone, Front and Gay streets	49 83
Expended for labor on vitrified block and new flagstone footway crossings	80 08
Expended for materials on vitrified block and new flagstone footway crossings	224 35
Footway crossings of old flagstones	233 12
Footway crossings of old asphalt blocks	21 57
Repaving of intersection of Twenty-fourth and Barclay streets	209 18
Kerbing and paving intersection of Preston street and Collington avenue	34 13
Grading and paving of alleys at Mine Bank lane and Townsend street	611 47
Fill foot of South Charles street (contract)	175 00
Grading Twenty-ninth street	182 39
Blacksmith and helper at City Yard	1,435 92
General hauling	785 57
Stonecutters employed on various work	151 20
Twenty-three tons of coal	113 01
Oils	190 59
Toll	1 80
Repairs to steam road roller	5 00
Water Department, lowering water pipe	30 50
64.33 cu. yds. paving sand on hand, City Property Yard	54 04
1,551 Metropolitan vitrified brick, including hauling to City Yard	42 19

Tools	94 11
Alterations to manholes and repairs by Electrical Commission	58 90
Insurance	30 00
Rent of lots	31 25
Metallic tape line	5 94
Hardware	433 65
Labor, City Property Yard	22 81
1,188 new asphalt blocks at Property Yard	77 22
19 bags Alpha cement and 2 bbls Germania Portland cement at Property Yard	16 41
Lumber	115 07
	$180,221 16

The following is a statement of the expenditures for labor and materials credited to the appropriations for "Repairs of Roads, Streets, etc.," and for the "Paving and Repairing of Cross Streets:"

Appropriation for Repairs of Roads, Streets, etc	$180,221 16
Appropriation for Paving and Repairing Cross Streets	448 54
Expended for labor charged to Roads, Streets, etc	88,567 11
Expended for materials charged to Roads, Streets, etc	91,654 05
Expended for labor charged to Paving and Repairing Cross Streets	215 35
Expended for materials charged to Paving and Repairing Cross Streets	233 19

GRADING AND KERBING CALVERT AND TWENTY-NINTH STREETS.

The work of setting new 4½-inch kerbstones on Calvert street, between Twenty-fifth and Twenty-eighth streets, begun last year, was completed by the contractor, Daniel Sullivan, and was accepted by the city.

Expended:

Contract, setting 2,124.15 feet kerb	$212 42	
Contract, setting 42.41 feet circular kerb	8 48	
1,002.89 feet 4½-inch kerbstone	574 86	
		$795 76

Charge:

Grading and Kerbing Calvert street	$714 13	
Contingent Fund	81 63	
		$795 76

The work of setting new 4½-inch kerbstones on Twenty-ninth street, from Maryland avenue to St. Paul street, for which a contract was made last year, was completed by the contractor, Daniel Sullivan, and accepted by the city.

The work of grading Twenty-ninth street, between Charles and St Paul streets, was done by the city by day labor. Gutters 28 inches wide were paved along the north and south kerbs in the block, Charles street to St. Paul street.

Expended—

Contract, setting 639.11 feet kerb at 10c	$63 91	
Contract, setting 721.04 feet kerb at 13c	93 74	
Contract changing kerb at Maryland avenue	2 50	
624 cu. yds. of excavation	262 66	
Labor on—		
1,400 sq. ft. cobblestone paved.		
800 3 lin. ft. gutterstone paved.		
51 lin. ft. kerbstone set	89 88	
Materials	981 55	
		$1,494 24

Charge—

Grading and Kerbing Twenty-ninth street	$1,494 24

THE CHESAPEAKE AND POTOMAC TELEPHONE COMPANY.

The restoration of all paving over this company's lines of conduits, excepting those in private streets and alleys, was done by this Department, and at the expense of the company. Extensions of trunk and lateral branch lines of conduits were laid in the central, eastern, northeastern, northern, northwestern and western sections of the city, and the amount and character of work done over its new lines during the year, and the expense thereof, are as follows:

123,020	sq. ft.	of cobblestone repaving.	
28,063	"	of Belgian block repaving.	
329	"	of flagstone reset.	
503	"	of mosaic block repaving.	
3,160	"	of asphalt block repaving.	
938	lin. ft.	of gutterstone reset.	
40	lin. ft.	of kerbstone reset.	
Expended for labor			$5,668 32
Expended for material			1,603 39
			$7,271 71

The total number of lin. ft. of ducts laid by the company to date, and subject to franchise tax, is 221,049.58 feet seven inches, or 73,683.19. lin. yds.

CONSOLIDATED GAS COMPANY.

There are but little repairs made to cobblestone pavements by this Department. Some repairs to asphalt blocks and sheet asphalt pavements were made, and the cost thereof charged to the company. The company laid many lines of pipe and did the repaving over them.

The amount, character and cost of work done by this Department are as follows:

Over service pipe in front of No. 1032 West Lexington street—		
Expended for labor	$1 58	
10 per cent for use of tools	16	
Expended for material, 31 new asphalt blocks	2 02	
		$3 76
To repairs of sheet asphalt pavement in Calvert street, south of bridge under Mt. Royal avenue (contract)—		
4.52 sq. yds		$6 96

All cuts made to the sheet asphalt pavements, not guaranteed, were restored by the Filbert Paving and Construction Company, in connection with the city's repairs, and at the expense of the Gas Company.

THE BALTIMORE REFRIGERATING AND HEATING COMPANY.

The work begun in 1902 was resumed this year, and the progress made was slow and tedious. The trunk line now completed extends from its power-house at Wayne and Eutaw streets, on the west side of Eutaw street to Camden street; thence diagonally across the intersection of said streets to the northeast side; thence on the east side of Eutaw street to the northeast side of Eutaw and Lombard streets; thence on the north side of Lombard street to the east side of Liberty street; thence on the east side of Liberty street to the intersection of Lexington street. From the southeast side of Liberty

and Baltimore streets the trunk line is continued easterly on the south side of Baltimore street to the intersection of Calvert street. The line of pipe is located about under the south rail of the south bound street railway track. From the southeast corner of Baltimore and Liberty streets the line is continued diagonally to the northwest side; thence westerly on Baltimore street, and under the north rail of the north bound track of the street railway to Eutaw street.

The company suspended operations on its trunk lines the latter part of November, and during the remainder of the year it was installing services and supplying heat to business houses on Liberty and Baltimore streets.

The restoration of the pavement over its trunk lines was done temporarily by the company. This department did some repairs over its line on Baltimore street, between Howard and Eutaw streets, where the pavement had badly settled. The cost of the same was billed the company.

The following work was done and charged to "Private Paving and Inspection:"

Repairs to cobblestone paving in alley rear of 2937, 2939, 2941 and 2943 St. Paul street, and bill for cost of same rendered against Robert W. Smith:

Expended for labor	$20 42	
Expended for material	4 06	
		$24 48

Repairs were made to roadway of the North Avenue Land Company to prevent water in times of rain from flowing over and damaging the roadbed of the Windsor Mill road. The cost of these repairs was at the expense of the land company:

Expended for labor	$26 67

Resetting kerb and repairs to street pavement were done alongside the following schoolhouses, and charged to the Inspector of Building's Department:

Mount and Saratoga streets, and Robert street and Pennsylvania avenue:

Expenditures.

Labor	$29 41	
Material	7 22	
		$36 63

Western Female High School:

The brick pavement in the rear and part of that on the east side of the school was replaced by one of Metropolitan vitrified blocks, and laid upon the old foundation of sand. There were 203.97 square yards laid:

Expenditures.

Labor	$62 93	
Material	255 01	
		$317 94

Walbrook avenue and Smallwood street:

The improvement made in front and east end of the schoolhouse at the above location consisted of setting new 4½-inch kerb, gutterstone and the paving with cobblestone of a space of two feet wide, outside the line of gutterstone:

Expenditures.

Labor	$145 82	
Material	398 64	
		$544 46

Alterations and new driveway approaches were constructed at the following engine houses:

Madison street, near Broadway; O'Donnell street, near Patuxent street; Saratoga street and Tyson alley, and Gold and McCulloh streets.

Expenditures.

Labor	$ 268 26	
Material	155 41	
		$423 67

DRAIN PIPES.

This Department, as heretofore, made repairs over all drain pipes, whether the pavement was either torn up by private individuals, corporations or the Inspector of Buildings, to lay new lines of pipe or repair breaks in old ones. Private indi-

viduals were either required to make a deposit or give bond sufficient to cover the cost of the work done, and bills were rendered against those under bond upon the completion of the repaving.

The following statement gives the amount of work done over drain pipes laid or repaired by various plumbers, and the cost incident thereto:

41,846 sq. ft. of cobblestone repaving.
17,797 sq ft. of Belgian block.
371 sq. ft. of flagstone resetting.
619 sq. ft. of asphalt block repaving.
716 sq. ft. of mosaic block repaving.
45 sq. ft. of vitrified brick repaving.
567 lin. ft. of gutterstone reset.
50 lin. of kerb reset.

Expended for labor	$2,196 24	
Expended for material	104 78	
		$2,301 02

Drain pipes were laid from the following schoolhouses by the Inspector of Buildings, and bills rendered against his department for the cost of repaving over them:

Gough and Stiles streets; Patterson Park avenue and McElderry street; Chesapeake and Hudson streets; Barre street, near Eutaw; Aisquith and Mullikin streets; Harford and Ashland avenues, and Robert street and Pennsylvania avenue.

Expenditures.

Labor	$ 305 85	
Material	121 00	
		$426 85

ELECTRIC STREET RAILWAYS.

Considerable renewal and repair work was done by the United Railways and Electric Company during the year. The company renewed the rails of its tracks on Baltimore street between Greene and Aisquith streets with new nine-inch grooved rails, laid upon crossties six inches thick. All the iron work of the cable slot system was taken out, and the

conduit filled in. New nine-inch grooved rails were also used in Pratt street between Howard street and Jones' Falls, with the exception of the south bound track from a point about Frederick street to the Falls. The company could not finish this part of its work on account of the Baltimore and Ohio Railroad Company being unable to get its new rails in time. Grooved rails were also used on Eutaw street, between Baltimore and Fayette streets.

On Howard street, between Pratt and Richmond streets; Lombard street, between Howard street and Frederick avenue; Frederick avenue, between Payson and Bentalou streets; Pratt street, between Bentalou and Gilmor streets, and on Gilmor, between Pratt and Lombard streets, the company renewed the rails of its tracks with new nine-inch flat rails. On Pratt street, between Jones' Falls and Exeter streets; Bond street, between Gough street and Eastern avenue; Eastern avenue, between Bond street and the eastern city limit, new nine-inch flat rails were also laid.

At all cross streets, where iron-covered gutterplates existed, the company removed them and laid iron pipes across and under its tracks with inlet approaches constructed to receive the surface drainage, the outlet of these drain pipes being covered with iron gutterplates.

All pavements torn up were satisfactorily restored, the company in many places repaving from the gutter line to its tracks. New modern crossings and curves were not only installed along the lines where the company renewed its tracks, but also at many other points in the city.

STEAM RAILWAYS.

There was not much new work done by the different railroad companies, outside of general repairs to their surface lines, except that by the Western Maryland or Wabash, and the Philadelphia, Baltimore and Washington Railroad Companies.

THE BALTIMORE AND OHIO RAILROAD COMPANY.

The most important work done by this company, outside of general repairs, was the renewing of the rails of its track on Pratt street, between Howard street and a point near Frederick street. These were laid in conjunction with the United Railways and Electric Company's work. The company also raised the grade of its track on President street, from a point north of Aliceanna street to Eastern avenue, and restored all the pavement disturbed in a satisfactory manner.

THE MARYLAND AND PENNSYLVANIA RAILWAY COMPANY.

There was no work in progress or begun by this company during the year.

THE PHILADELPHIA, BALTIMORE AND WASHINGTON RAILROAD COMPANY.

Under permit No. 24,050 this company began the erection of a ventilating shaft on its property located on the north side of North avenue, about 130 linear feet east of the prolongation of Oliver street, and the construction of a subway from it to its railroad tunnel under the bed (south side) of North avenue. This underground passageway is being constructed in open cut and passes under the city sewer, eight feet in diameter, located under the east sidewalk of North avenue.

The company also covered its tracks in the heretofore open cut between John street and Mt. Royal avenue by the construction of brick side walls and a flat roof with openings left on the side for ventilation.

THE NORTHERN CENTRAL RAILWAY COMPANY.

This company did not do any new work during the year. Repairs along and two feet outside its surface tracks in the city were kept in good condition.

THE WESTERN MARYLAND OR WABASH RAILROAD COMPANY.

This company began the construction of its tidewater line, which extends from Walbrook to its freight terminals on the middle branch of the Patapsco river and east of Light street. The route is by way of Gwynn's Falls.

MAINTENANCE OF PROPERTY YARD.

The property yard for the storage of small supplies of material was kept in good shape the past year. A hand-blower was substituted for the hand bellows in the blacksmith shop, as the latter did not give enough power to enable the blacksmith to get satisfactory results in doing heavy work. All tool sharpening and blacksmithing of a light character were done in the Department's shop in the yard. The hoisting engines and boilers stored in the yard were thoroughly cleaned and oiled, and the tool shed on the Low street side was provided with a galvanized gutter and spouting. An inventory of all the tools of the department was taken the latter part of November, and a list of same furnished Mr. Boteler, Chief Clerk. The same force operating at the yard was continued the past year.

Appropriation for maintenance of Property Yard		$1,500 00
Expenditures.		
Salary of Superintendent	$720 00	
Salary of Assistant Superintendent	660 00	
Two tons of coal for office	13 88	
Ice	12 07	
Hardware and repairs to pipe	3 55	
Oils, etc	7 20	
Roofing felt for blacksmith shop	18 00	
Blacksmith's hand-blower	12 00	
Galvanized gutters and spouting (contract)	22 60	
		$1,469 30
Surplus		$30 70

Materials on hand December 31, 1903:

1188-5x4 inch new asphalt blocks	$77 22	
19 bags Alpha cement	11 31	
2 bbls. Germania cement (foreign)	5 10	
64.33 cubic yards paving sand	54 04	
		$147 67

RECAPITULATION.

Expenditures.

Roads, Streets, etc	$180,221 16
Paving and Repairing Cross Streets	448 54
Footway Crossings	5,643 69
Footway Crossings material on hand	102 10
Footway Crossings outstanding requisitions	254 21
Widening North avenue and changing gutters at Peck's run	1,020 04
Grading and Kerbing Twenty-ninth street	1,494 24
Grading and Kerbing Calvert street	795 76
Maintenance of Property Yard	1,469 30
Paving in Front of City Property	504 20
Private Paving and Inspection	11,381 20
Incidentals	11 50
Salaries	6,364 61
Total	$209,710 55

Approximate estimates were made for grading, kerbing and paving in front of schoolhouses located as follows:

Walbrook avenue and Smallwood street,
Fourth and Chestnut avenues,
St. Paul and Twenty-sixth streets,
Cromwell and Twenty-second streets,
Johnson and Heath streets,

and also an estimate for paving gutters and macadamizing the approaches to the viaduct over Stoney run.

There was considerable office work in connection with the works above enumerated, such as examining bills, making estimates for contractors, requisitions for material, reports of accidents happening in the streets, and answering correspondence.

In conclusion, I wish to commend my assistants for the efficient and faithful co-operation rendered by each of them.

JNO. S. PATTERSON,
Assistant City Engineer.

ANNUAL REPORT

—OF THE—

SUB-DEPARTMENT OF HEALTH,

DEPARTMENT OF PUBLIC SAFETY,

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE,

—FOR THE—

Fiscal Year Ended December 31, 1903.

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904

Officers and Employes of the Department of Public Safety,

SUB-DEPARTMENT OF HEALTH.

JAMES BOSLEY, M.D., - - - - Commissioner of Health
C. HAMPSON JONES, M.D., - - - Asst. Commissioner of Health
SYDNEY O. HEISKELL, M.D., - Asst. Com'r of Health (Quarantine)
THADDEUS W. CLARKE, M.D., - - Asst. Quarantine Physician
J. W. M. KIGER, - - - - Secretary Department of Health
ARTHUR D. THOMPSON, - - Asst. Secretary Department of Health
WILLIAM ROYAL STOKES, M.D., - - - - - - Bacteriologist
GUSTAV W. LEHMANN, PH.D., - - - - - - - - Chemist
NICHOLAS G. KIERLE, M.D., - - - - Medical Examiner
B. P. MUSE, M.D., - - - - - - Asst. Medical Examiner
JOSEPH C. MITCHELL, - - Inspector of Plumbing and Drainage
C. I. PUTTS, JR., G. R. MINNICK, C. H. INDERRIEDEN, JOHN WARD,
Asst. Inspectors of Plumbing and Drainage
FRANCIS A. EBBERTS, - - - - - - Inspector of Drains
FRANCIS X. JENKINS, - - - - - - - - Nuisance Clerk
HARRY C. ANDREWS, - - - - - - - - Permit Clerk
JOHN H. UHLENBERG, - - - - - - - Registrar's Clerk
CHAS. A. WALL, GEORGE C. WEDDERBURN, - - - Index Clerks
W. P. STUBBS, M.D., - - - - - - Inspector of Throats
GEORGE F. SCHULTZ, - - - - - - - Inspector of Dairies
W. B. ROTH, C. A. LERIAN, CHAS. KNELL, H. G. WILSON
and E. C. COOPER, - - - - - - - - Inspectors of Food
R. L. WEBER, - - - - - - - - Inspector of Bakeries
J. A. CAMPBELL, - - - - - - - - - Laboratory Clerk
ELEAZER GOLDBERG, - - - - - Commissioner's Clerk
PATRICK R. GLYNN, - - - - - - - Keeper of Morgue
WM. E. WOODALL, - - - - - - Maker of Disinfectants
THOMAS E. MORSE and GEORGE W. PHILLIPS, - - Disinfectors
E. F. KELLY and AUGUST RITTMILLER, - Drivers of Funeral Wagon
JOHN B. WEILAGE, JOHN JOHNS, GROVER BENSER
and GEORGE KARL, - - - - - - Laboratory Assistants
JAMES BATCHEN, - - - - - - - - Telephone Operator

List of Health Wardens.

Wds.	Names.	Addresses.	Office Hours. A.M.	P.M.
1.	Dr. J. W. Williams....	1114 Chesapeake Street.....	.....	6–8
		410 S. Patterson Park Ave.....	8–10	7–8
2.	Dr. C. M. Schutte.....	600 S. Wolfe Street.....	8–10	7–8
3.	Dr. J. A. Schutte.....	1400 Gough Street.....	8–10	7–8
4.	Dr. H. K. Gorsuch.....	207 N. Liberty Street.....	8–10	7–8
5.	Dr. J. E. Heard	202 Aisquith Street.....	8–10	7–8
6.	Dr. J. T. Spicknall...	14 N. Patterson Park Avenue	8–10	7–8
7.	Dr. A. S. Gage.....	1716 E. Madison Street	8–10	7–8
8.	Dr. J. W. France.....	1407 N. Gay Street.....	8–10	7–8
9.	Dr. C. T. Buckner.....	1337 E. North Avenue.....	8–10	7–8
10.	Dr. E. H. Hayward...	1003 E. Eager Street.....	8–10	7–8
11.	Dr. C. VanBibber.....	9 E. Read Street.....	8–10	7–8
12.	Dr. T. L. Richardson.	211 W. Twenty-fifth Street.....	8– 9	6–8
13.	Dr. D. S. Williams.....	254 Carroll Street (Woodberry)....	7– 9	5–7
14.	Dr. A. G. Barrett.....	1631 Madison Avenue.....	8–10	7–8
15.	Dr. J. L. Ridgely.....	Forest Park	8–10	7–8
16.	Dr. Geo. B. Scholl....	1005 W. Lanvale Street.....	7– 9	6–8
17.	Dr. G. W. Hemmeter.	1114 Myrtle Avenue.....	7– 9	6–8
18.	Dr. R. A. Warner.....	873 W. Lombard Street.....	8–10	6–8
19.	Dr. M. G. Smith.....	1628 W. Lexington Street.....	8–10	6–8
20.	Dr. H. J. Hahn.....	Irvington	8–10	6–8
21.	Dr. A. D. Driscoll.....	757 McHenry Street.....	8–10	6–8
22.	Dr. A. T. Chambers...	614 S. Paca Street.....	8–10	6–8
23.	Dr. C.P.Erkenbrack..	1412 Light Street.....	8–10	6–8
24.	Dr. L. J. Turlington..	120 Fort Avenue.....	8–10	6–8

REPORT

—OF THE—

Commissioner of Health.

REPORT

BALTIMORE, MD., January 1, 1904.

To the Honorable the Mayor
and City Council of Baltimore.

GENTLEMEN: In accordance with the requirements of law I have the honor to submit the report of the Sub-Department of Health, Department of Public Safety, for the year ended December 31, 1903: The death rate for the whole population, white and colored, was 18.30 per thousand, compared with 19.53 for 1902. The deaths included 4,027 white males, 5,632 white females, 1,214 colored males, and 1,268 colored females, a total of 10,141. The death rate per thousand of the white population was 16.27, and of the colored population 29.45, an increase of 0.95 per thousand in the former, and a decrease of 2.05 per thousand in the latter.

The births reported were: White males, 3,613; white females, 3,388; colored males, 815; colored females, 804; total of white and colored, 8,620. Still-births, 741. The birth rate per thousand of population was: White, 15.52; colored, 19.74; for the entire population, 16.17. It will be seen that while the death rate among the colored population was greater than that of the white population, at the same time the birth rate of the former was considerably greater than that of the latter. Unfortunately, the returns of birth are incomplete, it being estimated that not more than 65 per cent. of the births are reported to the department, and it is, therefore, impossible to make any comparisons between the birth rate of the white population and that of the colored population. From the evidence at hand, however, it is apparent that the fecundity of the colored race in Baltimore is greater than that of the white race.

The deaths in hospitals and other institutions numbered 1,688, compared with 1,885 in 1902; 1,056 coroners' inquests, and 88 autopsies were held. The marriages reported were 5,593, an increase of 458 over 1902.

The principal causes of death were tuberculosis, with a total of 1,186; pneumonia, 1,101; diseases of the heart, 757; Bright's disease, 693; diarrhoea and enteritis, under 5 years of age, 550; cancer, 370; bronchitis, 235; typhoid fever, 189; diphtheria and croup, 160; scarlet fever, 84, and measles, 77. The total mortality of children under 5 years of age was 3,102.

SMALL-POX.

It is gratifying to note that, while this sub-department had every reason to believe that our city would have a mild invasion of small-pox during the year, only forty-one cases were reported, and there were but two deaths from the disease. This we regard as remarkable, when we consider that nearly every State and Territory had more or less cases of the disease, and that several cities and large towns easy of access to Baltimore suffered from the disease in almost an epidemic form. The comparative immunity from the disease that has obtained in Baltimore we believe to be largely due to the extensive vaccination of our people. Fortunately, the department has been supported by an ordinance of the Mayor and City Council, adopted after the epidemic of 1882–83, giving the Commissioner of Health extraordinary powers in times of imminent danger from the disease. This ordinance requires the vaccination of all children at least once before they are one year old, and as often thereafter as the Commissioner of Health shall, in his judgment, deem necessary.

The wisdom of this legislation, we believe, has been clearly demonstrated by our experience of the past three years. The recurrence of epidemics of small-pox seems to run in cycles, and the history of the past led us to believe that an epidemic of the disease might reasonably be expected to occur in the winter of 1902–'03. As the guardian of the

public health, it was the sworn duty of the Commissioner of Health to take such necessary precautions as, in his opinion, would render the city immune from the disease in an epidemic form. The only means to this end was the successful vaccination and revaccination of all persons who were likely to come in contact with the disease. For this purpose the Board of Estimates set aside in 1903 the sum of $7,500 for the use of the Health Department in vaccinating and isolating persons suffering from the disease, and all persons who might come in immediate contact with the disease. In addition an appropriation was made for a detention barracks at Quarantine, which has just been completed. As soon as the money was provided an extra force of vaccine physicians was employed, who made a systematic canvass of the city and vaccinated many thousands of persons, who otherwise would not have been vaccinated. These were in addition to the large number who were vaccinated by the regular staff of Health Wardens. The work was continued throughout the year by the regular staff of physicians attached to the Department.

While Baltimore has had but few cases of small-pox in the past three years, a different condition has obtained in several other cities. This difference we believe to be due solely to the absence of systematic vaccination. While Baltimore has a compulsory vaccination law, some other cities have no such law, and it is a fact that where vaccination is not compulsory the largest percentage of cases of the disease are found. While the cost of preventing an epidemic has been large, when we consider that amount of the appropriations made annually for the expenses of the Health Department, it is not worthy of consideration when we think of what would be the cost to eradicate an epidemic of the disease. The discovery of a case of small-pox means the isolation during the period of incubation, two weeks, of several members of the same household. These people, as a rule, are wage earners and unless they are permitted to go about their daily avocations

their maintenance must necessarily be provided by the city. In most cases new clothing must be supplied to patients who have recovered, and guards have to be paid to prevent people going into and out of infected houses. All this costs money and in a time of epidemic the cost would run into a large sum. The principal cost of an epidemic, however, would fall upon our business community. People from out of town will not trade with a city known to have an epidemic of small-pox. This applies to wholesale and retail dealers alike, and a recurrence of an epidemic as severe as that of 1882–'03 would mean the loss of millions of dollars in trade.

It is very evident that we will have more or less small-pox during the next two years, and it is, therefore, important that the Health Department be furnished with means to combat the disease. I, therefore, respectfully recommend that a liberal appropriation be made for this specific purpose.

SEWERAGE.

I feel that I cannot appeal too strongly for an adequate sewer system. Baltimore has a mild and salubrious climate, and its markets are supplied at all times with the freshest and best of meats, fruits and vegetables in great variety, and should therefore be one of the most healthful cities in the country. On the contrary, there are few cities in the United States that has not a lower average of deaths. It is true that our death rate is comparatively large, due in a great measure to the large proportion of negroes; but even when we eliminate the negro from our calculations the death rate is still higher than it should be. We believe that one of the most important factors in maintaining so high a death rate is largely due to the absence of a general sewer system, and the consequent large number of earth closets, and to surface drainage. One of the principal reasons why Baltimore has not had a sewer system is the facility with which surface drainage has been carried off. Built on rolling land, storm water is easily carried off, and after each heavy rain the

streets are left comparatively clean. Heavy rains are not of frequent occurrence, and a large part of the time the gutters are extremely filthy. If the surface drainage was rain water only the conditions would not be altogether bad, but unfortunately as conditions are, not only storm water but that from kitchens, bath rooms and in many cases from closets, flows over the alleys and streets, and in some cases percolates through the soil, spreading disease germs.

This is not the only evil resulting from the absence of sewers. It is estimated that there are over 90,000 earth closets in the city. The enormous amount of polluted matter flowing daily into these wells has saturated the soil with dangerous organic matter. These closets not infrequently receive the discharges from patients suffering with typhoid fever. Wherever there is polluted matter flies are attracted, and they collect the germs on their legs and bodies, and later deposit them on food and the edges of drinking vessels, whence they are readily taken into the system.

It is well known that these closets are breeding places for millions of mosquitoes every year, and it has been scientifically demonstrated that the mosquito is the most active agent in the transmission of malaria.

Experiments conducted by the United States Government at Havana have proved conclusively that if malaria is to be obliterated from cities the mosquito must be prevented from breeding, but as long as cesspools are allowed to exist this will be impossible.

Overflowing cesspools are the cause of the most frequent nuisances this department has to contend with. Complaints of such nuisances come to us from all sections of the city, with the result that from 35,000 to 50,000 inspections of cesspools are made annually.

The overflow from these cesspools is generally into badly paved alleys, but it eventually finds it way to the gutters, and then is carried by storm water to the basin. This emptying of polluted matter from cesspools, together with the filth

from the streets, into the harbor has been going on for years, with the result that the bottom of the harbor is filled with organic matter that becomes particularly offensive with the advent of warm weather, which condition obtains until cold weather. Whenever the harbor is dredged, or whenever vessels enter the harbor, which is of constant occurrence, the conditions are almost unbearable.

There are in Baltimore every year from 175 to 200 deaths from typhoid fever. This is a small percentage of the total deaths, but we believe that with a proper sewer system the mortality from this cause would be greatly reduced, and many valuable lives saved to the community.

The sensible thing to do is to put the city in a proper sanitary condition so that it would be impossible for an epidemic of typhoid fever, diphtheria or cholera to occur. A good sewer system, together with modern paved streets and alleys, would go a long way towards making Baltimore one of the most healthful cities in our broad land.

HOSPITAL FOR INFECTIOUS DISEASES.

I must once more call attention to the importance of providing a hospital for the care of persons suffering with the minor infectious diseases. During the past year the department has felt keenly the want of such a hospital. The number of cases of scarlet fever was much larger than for several years past, while the number of cases of diphtheria and measles was above the average. We have found by experience that it is impossible to properly isolate cases of infectious disease in the homes of the patients. The parents must be permitted to earn means of support for the families, and, in case of sickness, money must be procured for the pay of physicians and for medicine. The result is that parents frequently leave the rooms of the patient to carry with them the germs of disease which are carried to some child, who perhaps would have escaped the malady. Another argument in favor of a hospital is the fact that very often children have a mild attack of scarlet fever,

so mild in fact as to cause little or no anxiety on the parts of the parents. Desquamation follows, and before it has stopped the child is permitted to go into the streets and play with other children. The result is that the disease is spread from house to house, and in some instances scarlet fever in a malignant form is traced to a very mild case.

Careless people often shake bed clothing and rugs from the windows of rooms where there is scarlet fever, with the result that the germs are spread broadcast. If Baltimore were provided with a hospital for the care of these cases the liability to the transmission of disease would be greatly lessened. That there is no danger to the community immediately surrounding such a hospital has been demonstrated by the experience of Boston and other cities. It has also been shown that wherever such a hospital was established it was found that the little sufferers could receive better attention in most cases than they could at home, and that the demand for beds was greater than the supply.

SANATORIA FOR CONSUMPTIVES.

Your attention is earnestly directed to the importance of adopting measures for the prevention and cure of tuberculosis. It is well known that tuberculosis causes more deaths than diphtheria, scarlet fever, typhoid fever, measles, smallpox, mumps and whooping-cough combined. In the United States it is estimated that about 12 per cent. of the total deaths are due to consumption. In Baltimore the past five years there was a total of 51,716 deaths. Of this number, 6,553 or 12.67 per cent. were caused by consumption. This death rate is appalling, particularly when it is known that the disease is not only preventable, but in many cases curable. Perhaps the first thing to consider in this connection is the prevention of the disease. This may be accomplished; first, by isolating the patient afflicted with the consumption, together with the destruction of the sputum; and, second, by the adoption of such measures by the Mayor and City Coun-

cil as will effectually put a stop to indiscriminate expectoration. A person affected with consumption will throw off in sputum millions of bacilli every twenty-four hours. If this sputum is thrown upon the floor of a public conveyance or public buildings, or upon the footways, it speedily dries, and then every passing wind gathers up the bacilli and distributes them in all directions. With every breath persons are liable to take in large numbers of the germs, and if the person so receiving them is in a receptive condition they will find a lodgment, and in the course of a few weeks the dread disease will make its presence known.

As for the cure of the disease this is best brought about, not by medicine so much as by fresh, pure air, sunshine, sanitary surroundings and an abundance of nourishing food. That these conditions are essential to the cure of the disease is demonstrated by the experience of Germany, France, and to a small extent by several of the United States, where sanatoria have been established. By way of illustration let me refer to a statement recently made after a careful investigation by the health officers of Hamburg. "That where the family incomes are from $300 to $400 per annum the death rate from consumption is 55.4 per cent., while where the incomes are from $5,000 to $15,000 the death rate from the same cause is 7.5 per cent.

It is very apparent that it is persons of small incomes who suffer most from the disease, and who, if the disease is to be stamped out or lessened, should receive the assistance of the city and State. I would, therefore, suggest that the city and State jointly establish suitable sanatoria for consumptives. For this purpose it is not necessary to go beyond the borders of our own State. There is not, in my judgment, a locality better adapted to such a purpose than the Blue Ridge Mountains. There can be had fresh, pure air, sunshine, perfect drainage and an abundance of pure food. Land is comparatively cheap, and the establishment of suit-

able sanatoria would not entail burdensome taxation upon our people. Many of the patients could be given employment in the open air, which would not only be beneficial to them, but their labor would assist materially in supplying the sanatoria with fruits and vegetables—thus, in a measure, reducing the cost of maintenance.

Yours respectfully,

JAMES BOSLEY, M.D.,
Commissioner of Health.

REPORT

—OF THE—

Assistant Commissioners of Health.

REPORT.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: I respectfully submit to you nine (9) maps, showing the location of infected houses in cases of diphtheria, scarlet fever and typhoid fever. The other maps—tuberculosis, pneumonia, broncho-pneumonia, cancer, alimentary canal disease of children—show where deaths have occurred during the year 1903.

TYPHOID FEVER.

As usual the disease was distributed over the entire city, but was less frequent among those citizens that are known to be careful about their drinking water. There were 768 cases reported and 189 deaths, the latter indicating about 1,900 cases within the city during the year. While we believe that an infected water is the most frequent cause of this fever, yet a more effectual control will be obtained by insuring a pure milk as well as a pure water supply. To illustrate this, I will recite very briefly one instance of a local outbreak being produced by the supply of milk. In a large factory in this city there are employed many hundreds of workers, principally women. By a report from the district nurses the attention of the Health Department was called to an unusual number of cases of typhoid fever occurring amongst these employees. The manufacturers were at once telephoned. They gladly offered all facilities for the department to ascertain facts, because they themselves were becoming somewhat alarmed and were about to call on the department for assistance. Dr. William Royal Stokes, city

bacteriologist, was detailed to examine into the local condition. His report showed the workrooms to be in a good sanitary condition. He found that the firm, in order to offer facilities for the factory hands to obtain a good lunch at reasonable rates, had provided a lunch counter or room which supplied milk, besides other usual articles sold in dairy lunch rooms. Specimens of water and milk were obtained, also the name and address of the milkman who brought the milk. Drs. Stokes and Johns were further detailed to go to the milkman's farm, take photographs of the different places where the milk was handled, and to bring back specimens of milk, ice and water. The examination of the water taken from the factory showed it to be ordinary city water—no better, no worse; but the milk showed the presence of a large number of colon bacilli. The examination of the specimen of milk, water and ice taken from the farm showed colon bacilli in all three. Immediately the sale of the milk was stopped, and no more cases of typhoid fever developed. There were twenty-six (26) cases of the fever all told, and at least four (4) died.

In passing it is interesting to note that in all other respects the milk was the finest brought into the city, it showing four and a-half (4½) per cent. butter fat. This shows very conclusively that all dairy farms should be under the inspection of the health officials of the city, and the dairymen licensed by the Department.

TUBERCULOSIS.

A long list of deaths was again recorded during the year—1,323 in all. But, besides this, it must be remembered that many deaths reported to be due to bronchitis, bronchopneumonia and pneumonia really have as a primary cause tuberculosis. We do not believe that citizens die of simple bronchitis between the ages of fifteen and fifty years, but it is often so reported. The following tables have been constructed to summarize the principal facts:

DEATHS BY MONTHS—SEX, COLOR AND SOCIAL CONDITION.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Males	71	65	69	65	55	49	67	55	51	53	55	58	713
Females	49	41	65	60	44	50	49	42	51	45	59	55	610
White	86	77	81	85	65	68	78	60	78	69	78	81	906
Negroes	34	29	53	40	34	31	38	37	24	29	35	32	*416
Married	49	45	41	54	41	34	43	38	41	37	55	40	518
Single	63	49	76	61	51	54	59	50	52	49	41	60	665
Widowers	5	7	8	4	4	4	5	4	1	5	7	5	59
Widows	4	5	9	4	3	6	7	3	6	5	8	8	67
Divorced	.....	.....	.....	2	.....	.....	1	.....	1	.....	2	.....	6
Unknown	.....	.....	.....	.....	.....	1	1	2	2	2	1	.....	8
Total	120	106	134	125	99	99	116	97	102	98	114	113	1323

*November, one (1) Chinaman.

The next table shows classification by color and age:

Age.	White.	Colored.	Total.
Under 1 year	28	12	40
Between 1 and 2 years	22	11	33
" 2 " 5 "	13	25	38
" 5 " 10 "	9	18	27
" 10 " 15 "	11	28	39
" 15 " 20 "	72	58	130
" 20 " 25 "	97	56	153
" 25 " 30 "	101	42	143
" 30 " 35 "	104	44	148
" 35 " 40 "	107	28	135
" 40 " 45 "	77	32	109
" 45 " 50 "	67	20	87
" 50 " 55 "	60	22	82
" 55 " 60 "	42	5	47
" 60 " 65 "	35	8	43
" 65 " 70 "	32	4	36
" 70 " 75 "	17	3	20
" 75 " 80 "	11	.....	11
" 80 " 85 "	1	.....	1
Total	906	416	*1322

*Add to this one (1) Chinaman.

Average age under 1 year	6 months.
" between 1 and 2 years	17 "
" " 2 " 5 "	5.36 years.
" " 5 " 20 "	15 "
" above 20 years	39.44 "
" of all, white and colored	32.85 "
" of all whites	35.53 "
" of all colored	27.12 "

PNEUMONIA.

Until we can with greater certainty and clearness differentiate the varieties of pneumonitis, we shall always have much difficulty in discovering the number of cases of genuine frank pneumonia that is probably produced by the *pneumococcus lanceolatus*. It must be true that many death certificates, giving pnemonia as the cause of death, means a terminal pneumonia—an accidental additional cause of death. There were 791 deaths due to pneumonia this year, of these 518 were white people and 271 colored. (In addition there were two Indians.) Tabulated by ages and color, we get the following:

DEATHS FROM BRONCHO-PNEUMONIA—ACCORDING TO MONTH, AGE AND COLOR.

January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.	
W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
18	11	11	6	11	4	7	5	9	4	5	2	9	3	5	4	.....	2	6	4	5	2	12	6	98	
9	5	8	3	10	1	2	2	1	1	.....	1	.....	1	1	1	1	2	2	4	4	5	7	3	45	
8	3	6	.....	4	4	.....	.....	2	1	.....	.....	1	2	.....	1	2	1	1	.....	2	1	.....	3	26	
1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....	.....	1	1	.....	.....	4	
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	
.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	
1	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	6	
.....	1	1	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
2	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	
2	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	6	
1	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	
2	.....	2	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	8	
2	.....	2	.....	2	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	
.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
47	21	36	10	32	14	10	7	16	7	7	4	13	8	8	7	4	5	9	9	15	12	21	13	219	

January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.	
W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
17	10	18	4	12	6	7	5	3	8	3	2	4	.....	1	2	4	4	2	3	8	4	7	7	86	
9	4	5	4	10	7	7	4	4	.....	3	3	2	1	3	1	4	.....	2	2	4	3	7	1	60	
10	.....	11	7	2	5	4	1	2	.....	.....	1	2	2	.....	1	.....	1	1	3	3	... .	5	2	40	
1	....	3	1	... .	3	.....	.....	.....	....	.....	.....	1	.....	.....	.....	.....	.....	2	1	1	1	3	.....	11	
1	.....	1	.....	1	1	2	1	.....	2	.....	.....	.....	.....	1	1	.....	.....	.....	3	1	1	3	.....	10	
.....	1	.....	2	2	3	3	1	.....	..... .	.....	.....	.....	.....	.....	..... .	.....	....	1	.. ..	.....	1	1	4	7	
2	.....	.....	.....	.....	6	.....	2	.....	1	.....	1	.....	.....	1	1	1	1	1	.....	1	2	3	3	9	
5	1	4	2	2	3	3	.....	2	.....	1	.....	1	.....	.....	1	.....	1	1	1	.....	3	1	1	20	
1	2	4	1	2	3	4	3	4	.....	2	.....	... .	.....	1	.....	.....	2	2	2	2	2	4	1	26	
4	1	3	.....	1	2	3	2	.....	1	2	1	3	.....	.....	..... .	2	1	2	2	7	.....	4	2	31	
4	2	5	6	1	1	5	2	3	2	4	.....	.....	1	.....	.....	.....	.....	1	1	4	2	2	1	29	
5	.....	7	1	2	1	.....	1	5	1	.....	1	.....	1	.....	.....	1	1	1	1	1	.....	2	1	24	
3	2	6	2	4	1	4	1	3	1	.....	.....	2	.....	.....	.....	.....	1	1	.....	2	1	4	3	29	
8	4	4	.....	5	.....	1	2	.. . .	1	2	.....	.....	.....	..... .	.....	1	1	4	.....	3	.....	2	3	30	
8	.....	2	3	5	1	2	.....	4	1	1	.....	... .	.....	1	.....	1	.....	2	.....	1	1	1	.....	28	
2	1	4	2	3	.....	.....	.....	1	1	.....	1	1	.....	.....	.....	1	.....	.....	1	5	1	6	2	23	
6	1	2	.....	2	1	4	.....	3	1	1	.....	.....	.....	2	.....	1	.....	....	1	.....	1	4	.....	25	
3	.....	3	.....	.....	.....	1	1	2	.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	16	
2	.....	2	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2	1	.....	9	
.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	... .	.....	.....	.....	.....	1	.....	.....	.....	3	.....
.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	. .....	.....	.....	.....	1	
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	. .....	.....	.....	.....	1	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..... .	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	
91	29	87	26	56	44	50	27	37	21	22	11	16	5	10	7	16	13	24	21	47	25	62	32	518	2

the above, deaths of two (2) Indians; one in April and the other in December.

CANCER.

This disease caused the death of 311 people, as compared with 320 in 1902, divided as follows: 285 white, 26 colored; 101 males, 210 females.

CLASSIFIED ACCORDING TO THE ORGAN OR PART OF THE BODY INVOLVED.

Antrum (Highmore)	1	Omentum	1
Bladder (urinary)	5	Ovaries	2
Breast	29	Pancreas	5
Cheek	1	Penis	1
Clitoris	1	Peritoneum	1
Face	5	Pharynx	1
Gall bladder	1	Rectum	15
Glands	1	Scapula	1
Hip	1	Skull	2
Intestines	16	Stomach	101
Jaw	1	Thorax	1
Larynx	1	Throat	3
Lip	1	Thyroid	1
Liver	33	Tongue	5
Mediastinum	1	Uterus	64
Mesentery	1	Vulva	1
Mouth	1	Not specified	5
Œsophagus	1		

CLASSIFIED ACCORDING TO SOCIAL CONDITIONS.

Single	39	Married	176
Widows	79	Widowers	17

Average age at death of all, both white and colored.....56.957 years.
" " " of white.....57.259 "
" " " of colored.....53.571 "

Average age at death, according to the most frequent organ involved:

Stomach (101).....61.191 years.
Uterus (64).....51.750 "
Liver (33).....59.333 "
Breast (30).....55.500 "
Intestines (16).....56.625 "
Rectum (15).....59.400 "

Females who died of cancer not involving the external or internal genitals—this does not include the "not specified, 5":

Bladder	2	Mesentery	1
Cheek	1	Mouth	1
Face	1	Pancreas	2
Gall bladder	1	Rectum	11
Intestines	10	Scapula	1
Jaw	1	Stomach	48
Liver	21	Thorax	1
Mediastinum	1	Thyroid	1

Making a total of 104.

DISEASES OF THE ALIMENTARY CANAL.

The number of deaths of children five years old or less is 568, being 173 less than last year, when the number was 741. More favorable weather, no doubt, had considerable to do with this lessening; yet it is to be noted that the deaths are more and more confined to the poorer streets of the city, where unhygienic environments and lack of money prevent the parents from taking the very best of care of the feeding of children.

The 568 deaths were divided as follows:

Males	329	White	431
Females	239	Colored	137

The following table will give the ages and color of the children, and the months in which the deaths occurred:

Month.	Under 1 yr.		Bet. 1 and 2 yrs.		Bet. 2 and 5 yrs.		Total.	
	White	Col.	White.	Col.	White.	Col.	W.	C.
January	7	1	1				8	1
February	7		2				9	
March	2		4		1	1	1	1
April	2			1			2	1
May	2						2	
June	56	13	6	1	4		66	14
July	146	59	10	5	4	4	160	68
August	80	26	17	5	7	2	104	33
September	28	9	7	1	4		39	10
October	17	3	5		1		23	3
November	8	4	1	2			9	6
December	2						2	
Total	357	115	53	15	21	7	431	137

SCARLET FEVER AND DIPHTHERIA.

Both these diseases increased considerably over 1902. Scarlet fever almost trebled, the number being 1,224 cases as compared with 481. This disease is much more difficult to limit than diphtheria because of the long period of desquamation subsequent to the fever, during which time the child is apt to move about the house, and even in the street. The physicians usually cease to visit the patient when the fever subsides, and no special care is used to protect others. This applies especially to the poorer people, who are more or less huddled together. I believe that the disease spreads more readily among the poor for two reasons: First, because the families have not sufficient room; and, second, because the antiseptic baths are not given, or only imperfectly administered. I confidently believe that the latter precaution, thoroughly carried out, would lessen the disease to a considerable degree. Yours respectfully,

C. HAMPSON JONES, M.D.,
Assistant Commissioner.

REPORT.

JAMES BOSLEY, M.D.,
Commissioner of Health.

SIR: I have the honor to herewith submit the report of the Quarantine Hospital for the year ending December 31, 1903.

During the year nine hundred and forty vessels have been boarded and inspected (see Table 1), and from these vessels we have collected and paid into the City Treasury the sum of $16,140.21. (See Table 2.)

Table 3 shows the number of vessels, with sickness on board, or from infected ports, detained at Quarantine for disinfection and fumigation. There were eighteen in all.

Sixty-nine persons were received at this hospital during the year. (See Table 4.) Of these, fifty-three were cases of small-pox—forty-two of whom came from the city and ten from Baltimore county. Fifteen persons were quarantined because they came in contact with the disease; two deaths occurred.

The cost of maintaining the Quarantine Station for the year was: For salaries, $11,101, and for general expenses, $5,850. A considerable increase in the expense account will occur upon the completion of the detention house for coal, oil, etc.

I must again call your attention to the fact that a new and more substantial boat for the proper conduct of the duties of this service is an imperative necessity. The additional duties that will be imposed upon this hospital, of transporting not only the small-pox from the city, but also all those

who have come in contact with it, will require a boat properly equipped for such service. I would also recommend the painting of the buildings and the renewal of the plumbing in the hospital. It is in a most deplorable condition, having been in constant use for twenty years.

In conclusion, I desire to thank Dr. T. W. Clarke for his intelligent assistance, and to say that the employees have performed their duties in a manner deserving the highest praise.

Very respectfully,

S. O. Heiskell,
Assistant Commissioner of Health and Quarantine Physician of the Port.

TABLE No. 1.

SHOWING THE NUMBER OF VESSELS BOARDED AND INSPECTED AT THE QUARANTINE FOR THE YEAR ENDING DECEMBER 31, 1903.

MONTHS.	CLASS OF VESSELS.					
	Steamships.	Ships.	Barks.	Brigs.	Schooners.	Total.
January	53	.....	2	.....	.....	55
February	39	1	3	.....	1	44
March	49	2	5	.....	.....	56
April	56	2	4	.....	.....	62
May	71	1	2	.....	36	110
June	82	2	6	1	33	124
July	91	1	7	.....	35	134
August	80	.....	4	1	19	104
September	65	1	5	1	8	80
October	58	.....	1	.....	11	70
November	52	1	3	.....	2	58
December	41	.....	.....	.....	2	43
Total	737	11	42	3	147	940

TABLE No. 2.

SHOWING THE AMOUNT OF MONEY RECEIVED FOR QUARANTINE FEES AND PAID TO THE CITY REGISTER FOR THE YEAR ENDING DECEMBER 31, 1903.

MONTHS.	CLASS OF VESSELS.						
	Steamships.	Ships.	Barks.	Brigs.	Schooners.	Care of County Patients.	Total.
January	$1,111 16		$21 34				$ 1,132 50
February	920 88	$ 30 06	27 75		$ 2 00		980 69
March	1,113 12	45 73	36 11				1,194 96
April	1,065 27	48 64	23 81			$42 50	1,180 22
May	1,335 19	16 35	10 07		176 21	43 00	1,580 82
June	1,453 82	29 79	78 21	$ 3 63	151 01		1,716 46
July	1,578 04	15 59	64 57		155 54		1,813 76
August	1,401 63		38 89	3 63	105 10		1,549 25
September	1,300 61	14 35	46 96	3 63	62 50		1,428 05
October	1,222 09		29 68		55 45		1,307 22
November	1,181 50	15 72	58 20		7 51		1,262 93
December	983 11				10 24		993 35
Total	$14,666 42	$216 23	$435 59	$10 89	$725 56	$85 50	$16,140 21

TABLE No. 3.

SHOWING THE NUMBER AND CLASS OF VESSELS DETAINED AT QUARANTINE FOR CLEANSING AND DISINFECTION FOR THE YEAR ENDING DECEMBER 31, 1903.

MONTHS.	CLASS OF VESSELS.					
	Steamships.	Ships.	Barks.	Brigs.	Schooners.	Total.
January	1					1
February						
March						
April						
May	1					1
June	3					3
July	1					1
August	3					3
September	7					7
October	2					2
November						
December						
Total	18					18

TABLE No. 4.

SHOWING THE NUMBER OF PATIENTS TREATED AT THE QUARANTINE HOSPITAL FOR THE YEAR ENDING DECEMBER 31, 1903.

DISEASE.	Remaining Over from 1902.	Received in 1903.	Discharged in 1903.	Died.	Remaining in Hospital.	Total.
Small-pox	1	53	52	2		54
Quarantined		15	15			15
Total	1	68	67	2		69

Supplementary Report on Tuberculosis.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: "The prevention and cure of tuberculosis" has been an absorbing topic for many years. The interest of the people has become greater as year by year it has become more evident to them that the dreaded disease can be prevented, and that it can be cured. The Legislature of Maryland (1902) showed the growing interest of the people of this State by passing an Act giving Governor Smith the power to name a Tuberculosis Commission, whose duty should be to obtain facts concerning the ravages of the disease in this State, and to recommend to the Legislature of 1904 any feasible methods to be adopted to stamp out the disease. An excellent Commission was named by Governor Smith, consisting of Dr. W. S. Thayer, chairman; Dr. Frank Hines, of Chestertown; Dr. Lillian Welsh; Mr. John Glenn and Mr. George Steuart Brown, which Commission at once elected Mr. John Glenn secretary and appointed Dr. Marshall L. Price, Medical Officer. Towards the close of the second year of its work, the Commission adopted the suggestion of Dr. John S. Fulton, secretary of the Maryland State Board of Health, that it should get up an exhibition that would present to the eyes of the public, and members of the Legislature of 1904, that which would be embodied in the report of the Commission. The success of the exhibition, which was given last January, in McCoy Hall, was far beyond the expectations of its most sanguine promoters, and for an entire week the hall was crowded with citizens and strangers who desired to see the exhibition and listen to the highly instructive lectures.

After all this work and the expenditure of time and money we were visited by the great disaster, the fire of February 7, 1904, which for a time, a short time we hope, prevented the Legislature from doing more than to receive the report and continuing the Commission for another two years.

"Lest we forget."

You as a Commissioner of Health of Baltimore, determined to have reproductions made of the tuberculosis map which was prepared and exhibited at thetuberculosis exhibition by this department, so that the public and its officials should not forget that the exhibition in January was not a demonstration of a mere fancy or dream, but of a living fact, always with us, heaping its burden of sickness and death upon us all.

It was only by the splendid work of Dr. Lillian Welsh and Dr. Mary Sherwood, with their corps of assistants, that the map could be prepared in time for the exhibition. They went over the death records of this city from 1891 to 1900, inclusive, and recorded on cards all the deaths from tuberculosis; and then we dotted the location of the deaths on the large map bought for this purpose. In order to include the map in our annual report, a reduced photograph of the original map was made; the original broad, red lines marking the boundaries of the twenty-four wards are black in this copy, and the numbers of the wards are in large black figures. The red dots show the places where the deaths from tuberculosis occurred.

Those citizens who are acquainted with the city will at once recognize the crowded portions and the habitations of our colored population. Glance along the black line—which is Druid Hill avenue, marking the separation of the Seventeenth and Eleventh wards—and then continue northward on Druid Hill avenue to North avenue. To the left of Druid Hill avenue the colored population predominates. You will find in other portions of the map this fact brought out—that wherever you have the people, white or colored, crowded

together in poorly ventilated and poorly lighted houses, there you find the prevalence of tuberculosis.

To successfully fight tuberculosis several things are necessary—i. e., an abundance of sunlight and fresh, pure air, dry soil, dry houses and plenty of good, nutritious food. It is this great problem that is now before the people. Let the city and State establish well-equipped sanatoria; let the city widen the dark streets, lanes and alleys; prohibit the erection of a dwelling-house on streets less than thirty feet wide; tear down blocks of miserable dwellings and make public playgrounds and breathing places for the poor and their children; (you won't find any such places on the map where the disease is most abundant;) establish a sewerage system in order to get rid of privy wells, and then the good work of the district nurses and the various charity organizations in supplying food and nursing will begin to show permanent effect.

From the records of ten years (1891 to 1900) the following tables have been made. There were 11,582 deaths in all. The first table gives the total number of deaths from various ages, and the months in which they occurred:

Ages.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Under 1 year	30	36	61	47	27	41	55	32	48	28	22	32	459
Between 1 and 5 years...	58	46	65	70	56	56	40	36	26	39	39	48	579
" 5 " 10 " ...	18	19	35	28	47	20	18	16	18	22	16	9	266
" 10 " 20 " ...	107	79	134	121	121	92	106	95	84	70	96	114	1219
" 20 " 30 " ...	290	282	284	276	250	243	258	229	247	289	266	286	3200
" 30 " 40 " ...	236	240	231	179	183	177	178	169	175	204	184	211	2367
" 40 " 50 " ..	143	129	159	118	132	106	108	125	109	136	120	152	1537
" 50 " 60 " ...	95	95	97	83	95	51	77	89	68	73	84	84	901
" 60 " 70 " ...	64	58	89	47	59	39	56	36	43	53	71	49	664
" 70 " 80 " ...	19	21	23	25	20	25	10	26	17	22	17	27	252
" 80 " 90 " ...	7	5	4	4	6	2	2	4	4	.....	2	6	46
" 90 " 100 " ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	2	2
Total.....	1067	1010	1182	998	996	852	908	857	839	936	917	1020	11582

If, now, we compare a similar table (made from the records of 1903) with this we will note the following:

AGES.	Average Number Per Year.	For 1903.
Under 1 year	45.9	40
Between 1 and 5 years	57.9	71
" 5 " 10 "	26.6	27
" 10 " 20 "	121.9	169
" 20 " 30 "	320.0	296
" 30 " 40 "	236.7	283
" 40 " 50 "	153.7	196
" 50 " 60 "	99.1	129
" 60 " 70 "	66.4	79
" 70 " 80 "	25.2	31
" 80 " 90 "	4.6	1
" 90 " 100 "	.2	0

The next table shows the number of males and females:

MONTH.	Male.	Female.	Total.
January	539	528	1,067
February	558	452	1,010
March	638	544	1,182
April	514	484	998
May	527	469	996
June	411	441	852
July	457	451	908
August	429	428	857
September	443	396	839
October	471	465	936
November	468	449	917
December	554	466	1,020
Total	6,009	5,573	11,582

The average number of males and females per year of these ten years, compared with 1903, was:

SEX.	Average Number Per Year.	For 1903.
Males	600.9	713
Females	557.3	610

Table No. 3 shows the number of whites and negroes per month, from 1891 to 1900.

Color.	Whites.	Negroes.	Total.
January	800	267	1,067
February	729	281	1,010
March	800	382	1,182
April	675	323	998
May	670	326	996
June	592	260	852
July	649	259	908
August	641	216	857
September	591	248	839
October	690	246	936
November	670	247	917
December	723	297	1,020
Total	8,230	3,352	11,582

Yours respectfully,

C. HAMPSON JONES,

Assistant Commissioner of Health.

VITAL STATISTICS

—OF THE—

Sub-Department of Health

—OF—

Baltimore City

—FOR THE—

YEAR ENDING DECEMBER 31, 1903.

TABLES.

VITAL STATISTICS OF THE CITY OF BALTIMORE FOR THE YEAR ENDING DECEMBER 31, 1903.

Estimated population, white			451,000
" " colored			82,000
Total			533,000
Marriages reported			5,593
Rate per 1,000 population			10.50
Births reported, white males		3,613	
" " white females		3,388	
			7,001
Births reported, colored males		815	
" " " females		804	
			1,619
Total births reported			8,620
Birth rate per 1,000 population, whole			16.17
" " " " white			15.52
" " " " colored			19.74
Still births			741
Total mortality, white males		4,027	
" " white females		3,632	
			7,659
Total mortality, colored males		1,214	
" " " females		1,268	
			2,482
Total deaths reported			10,141
Annual death rate per 1,000 population, whole			19.03
" " " " less non-residents			18.30
" " " " white			17.00
" " " " less non-residents			16.27
" " " " colored			30.27
" " " " less non-residents			29.45

Total number of deaths from typhoid fever	189
" " " " measles	77
" " " " scarlet fever	84
" " " " whooping cough	64
" " " " diphtheria and croup	160
" " " " influenza (la grippe)	92
" " " " dysentery	40
" " " " tuberculosis of the lungs	1,186
" " " " cancers	370
" " " " anæmia	33
" " " " diseases of the heart	757
" " " " bronchitis	235
" " " " pneumonia	1,101
" " " " diarrhœa and enteritis, under 5 years	550
" " " " diarrhœa and enteritis, over 5 ys.	68
" " " " Bright's disease	693
" " " " puerperal hemorrhage	2
" " " " puerperal septicæmia	57
" " " " puerperal convulsions	22
" " " " sunstroke and heat	15
" " " " accidents	402
" " " " suicides	58
" " " " under five years of age	3,102

Deaths in Public Institutions.

Baltimore City Jail	7
Penitentiary	10
Hospitals and asylums	1,671
Total	1,688
Number of coroners' inquests	1,056
" autopsies	88
" non-residents dying in the city, white	322
" non-residents dying in the city, colored	67

TABLE No. I—Showing the Number of Infectious and Contagious Diseases Reported During the Year 1903.

Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Small-pox	2	6	10	5	13	1	1	.....	1	1	.....	1	41
Diphtheria	116	98	86	110	106	57	94	112	142	175	177	163	1436
Pseudo-Membranous Croup	.....	2	2	4	1	.....	1	1	1	3	5	5	25
Scarlet Fever	55	38	59	93	139	103	115	122	140	106	131	123	1224
Typhoid Fever	28	36	29	25	27	60	131	146	128	85	40	33	768
Measles	1235	550	237	82	44	21	9	4	3	6	6	6	2203
Mumps	15	21	26	44	40	30	18	9	4	19	9	12	247
Whooping Cough	28	15	16	12	3	14	24	28	27	25	29	12	233
Varicella	50	18	26	9	20	10	3	6	9	11	33	61	256
Tuberculosis Pulmonalis	42	38	53	47	53	42	50	44	41	32	43	66	551
Total	1571	822	544	431	466	338	446	472	496	463	473	482	6984

TABLE No. II.—Showing the Number of Deaths according to Ages During the Year 1903.

Ages.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Under 1 year	183	157	154	129	117	183	418	260	152	156	132	133	2174
Between 1 and 2 years	51	51	50	34	17	23	39	49	37	34	39	33	457
" 2 " 5 "	59	50	39	38	38	25	49	33	35	32	31	42	471
Total under 5 years	293	258	243	201	172	231	506	342	244	222	202	208	3102
Between 5 and 10 years	23	25	20	30	24	16	17	20	20	26	15	24	260
" 10 " 15 "	14	6	20	14	15	14	19	11	17	14	14	17	175
" 15 " 20 "	25	16	26	24	25	19	27	38	20	23	22	35	300
" 20 " 30 "	91	56	82	80	78	61	76	64	61	75	67	76	867
" 30 " 40 "	89	74	79	91	74	62	78	69	58	71	83	92	920
" 40 " 50 "	111	95	76	91	73	70	75	71	80	73	85	76	976
" 50 " 60 "	110	93	104	80	86	65	75	73	76	78	79	101	1020
" 60 " 70 "	111	97	109	83	90	74	93	67	61	90	84	120	1079
" 70 " 80 "	105	90	90	69	78	66	95	61	58	73	70	92	947
" 80 " 90 "	49	39	40	33	35	27	32	35	29	27	32	38	416
" 90 " 100 "	8	12	10	6	2	1	3	3	2	2	3	6	58
" 100 " 110 "	1	1	2	3	1	1	.....	5	.....	1	.....	1	16
Over 110 years	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Unknown age	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	4
Total	1030	862	902	805	753	707	1097	860	707	776	756	886	10141

TABLE III.

SHOWING THE NUMBER OF DEATHS ACCORDING TO AGES, SEX AND COLOR DURING THE YEAR 1903.—WHITES.

January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		TOTAL.
M.	F.	M.	F.	M.	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
78	50	62	61	69	39	45	38	33	43	76	56	161	126	105	89	63	41	57	50	66	30	52	44	1534
20	17	22	17	20	22	6	13	6	6	11	7	18	10	16	17	15	13	6	13	14	13	16	13	331
26	25	21	17	9	12	13	11	18	13	12	6	21	10	12	11	11	11	18	8	9	16	16	17	343
124	92	105	95	98	73	64	62	57	62	99	69	200	146	133	117	89	65	81	71	89	59	84	74	2208
8	11	5	14	9	3	11	6	8	11	6	6	8	4	11	5	9	6	9	11	6	6	6	9	188
4	4	2	.....	4	5	8	2	3	2	5	3	4	7	8	1	7	6	4	2	5	4	1	10	101
9	8	2	8	6	8	7	8	9	8	7	6	8	10	13	12	7	6	7	6	7	7	7	12	188
34	38	21	22	27	30	28	29	32	17	20	24	21	27	21	22	21	16	20	29	20	29	25	20	593
37	25	29	22	32	21	33	35	25	32	30	17	32	27	32	26	18	28	27	25	33	30	42	26	684
41	38	42	25	28	25	45	22	31	26	33	19	21	31	26	21	38	18	34	19	36	29	27	30	705
42	38	39	40	40	45	30	30	30	29	29	24	35	20	23	33	38	23	39	19	36	22	41	41	786
54	44	44	41	45	44	42	31	39	40	39	20	41	33	33	28	25	28	41	34	29	42	61	50	928
48	45	39	41	27	54	22	40	38	29	20	39	45	42	28	30	21	30	46	21	33	33	40	45	856
23	23	17	20	12	27	14	17	12	15	18	7	15	15	11	21	6	19	12	13	12	18	14	16	377
1	6	4	4	3	4	....	3	.....	1	.....	1	... .	2	1	1	.....	1	1	1	.....	2	1	2	39
.....	.....	.....	.....	.....	.....	2	1	..... .	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	..... .	2
425	372	349	332	331	339	304	287	285	272	306	235	430	364	341	318	280	246	321	251	306	281	349	335	7659

TABLE IV.

SHOWING THE NUMBER OF DEATHS, ACCORDING TO AGES, SEX AND COLOR, DURING THE YEAR 1903—COLORED.

January.		February.		March.		April.		Ma .		June.		July.		August.		September.		October.		November.		December.		TOTAL.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
32	23	14	20	24	22	28	18	23	18	30	21	63	68	37	29	2	25	29	20	20	16	16	21	640
10	4	8	4	1	7	9	6	1	4	2	3	9	2	7	9			9	6	6	6	2	2	126
3	5	6	6	11	7	6	8	5	2	1	6	12	6	7	3	5		3	3	2	4	4	5	128
45	32	28	30	36	36	43	32	29	24	33	30	84	76	51	41	34	36	41	29	28	26	22	28	894
3	1	2	4	3	5	7	6	4	1	1	3	1	4	1	3	2	3	2	4	2	1	5	4	72
3	3	2	2	7	4	.....	4	3	7	1	5	2	6	1	1	1	3	4	4	2	3	2	4	74
3	5	2	4	5	7	.....	9	6	2	2	4	5	4	6	7	2	5	5	5	4	4	5	11	112
6	13	7	6	11	14	9	14	11	18	8	9	10	18	11	10	10	14	9	17	6	12	15	16	274
20	7	10	13	16	10	11	12	13	4	10	15	8	11	4	7	10	2	10	9	11	9	13	11	236
14	18	18	10	8	15	13	11	7	9	6	12	14	9	9	15	13	11	7	13	10	10	11	8	271
14	16	10	4	8	11	12	8	13	14	8	4	10	10	5	12	8	7	13	7	10	11	11	8	234
6	7	8	4	13	7	5	5	8	3	9	6	10	9	4	2	5	3	3	12	10	3	2	7	151
6	6	2	8	6	3	3	4	4	7	3	4	4	4	.....	3	1	6	2	4	2	2	6	1	91
.....	3	.....	2	.....	1	.....	2	2	6	1	1	.....	2	.....	3	2	2	.....	2	.....	2	1	7	39
1	.....	.....	4	.....	3	.....	3	.....	1	.....	.....	.....	1	.....	1	1	.....	.....	.....	.. ..	1	1	2	19
.....	1	.....	1	.....	2	.....	1	....	.. ..	1	.....	.....	.....	.....	4	.....	.....	.....	1	.. ..	.....	... .	1	12
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	. .....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2
121	112	89	92	113	119	103	111	100	96	83	83	148	155	92	109	89	92	97	107	85	84	94	108	2482

TABLE No. V.

Showing the Nativity of the Decedents for the Year 1903.

Nativity.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Total
United States—White males	323	271	246	227	197	234	341	275	226	238	226	257	3061
" " White females	257	250	246	211	202	182	297	252	177	214	200	251	2739
Foreign—White males	101	76	81	72	86	71	84	60	49	79	75	89	923
" " females	113	82	92	75	70	53	64	64	64	35	79	83	874
Colored males	119	87	113	102	99	80	145	91	83	95	82	90	1186
" females	111	91	119	111	96	82	151	105	85	105	82	104	1242
Unknown white males	1	2	4	5	2	1	5	6	5	4	5	3	43
" " females	2	.....	1	1	.....	.....	3	2	5	2	2	1	19
" colored males	2	2	.....	1	1	3	3	1	6	2	3	4	28
" " females	1	1	.....	.....	.....	1	4	4	7	2	2	4	26
Total	1030	862	902	805	753	707	1097	860	707	776	756	886	10141

Marriages for the Year 1903.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Marriages	414	381	341	555	323	707	338	400	482	564	586	502	5593

TABLE No. VI.

Showing the Number of Births Reported During the Year 1903.

Color and Sex.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
White males	380	285	295	269	259	278	327	314	304	294	283	325	3613
" females	342	225	300	204	260	296	305	276	316	298	238	328	3388
Colored males	55	61	61	56	79	76	75	73	68	73	66	72	815
" females	36	72	66	53	80	74	75	70	79	66	57	76	804
Total	813	643	722	582	678	724	782	733	767	731	644	801	8620
Illegitimates.													
White males	3	11	17	8	19	16	14	10	22	11	12	12	155
" females	11	8	9	7	19	15	17	12	18	9	12	13	150
Colored males	10	15	12	15	29	14	22	16	20	9	7	15	184
" females	6	20	14	7	28	21	27	19	19	15	9	16	211
Total	30	54	52	47	95	66	80	57	79	44	40	56	700
Still Births.													
White males	23	21	25	18	26	26	26	20	30	23	24	38	300
" females	15	18	12	10	17	18	18	21	18	11	15	14	187
Colored males	9	8	11	13	15	14	12	14	13	13	10	12	144
" females	14	8	9	4	12	7	9	8	6	9	12	12	110
Total	61	55	57	45	70	65	65	63	67	56	61	76	741

TABLE VII.

SHOWING THE NUMBER OF DEATHS REPORTED DURING THE YEAR 1903 IN MONTHLY PERIODS—SEX, COLOR AND NATIVITY.

MONTHS.	NATIVE WHITE.			FOREIGN WHITE.			WHITE.			COLORED.			TOTALS.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
January	323	257	580	101	113	214	U'n 1 424	U'n 2 370	797	U'n 2 119	U'n 1 111	233	546	484	1030
February	271	250	521	76	82	158	U'n 2 347	U'n 4 332	681	U'n 2 87	U'n 1 91	181	438	424	862
March	246	246	492	81	92	173	U'n 4 327	U'n 1 338	670	113	119	232	444	458	902
April	227	211	438	72	75	147	U'n 5 299	U'n 1 286	591	U'n 1 102	111	214	407	398	805
May	197	202	399	86	70	156	U'n 2 283	272	557	U'n 1 99	96	196	385	368	753
June	234	182	416	71	53	124	U'n 1 305	235	541	U'n 3 80	U'n 1 82	166	389	318	707
July	341	297	638	84	64	148	U'n 5 425	U'n 3 361	794	U'n 3 145	U'n 4 151	303	578	519	1097
August	275	252	527	60	64	124	U'n 6 335	U'n 2 316	659	U'n 1 91	U'n 4 105	201	433	427	860
September	226	177	403	49	64	113	U'n 5 275	U'n 5 241	526	U'n 6 83	U'n 7 85	181	369	338	707
October	238	214	452	79	35	114	U'n 4 317	U'n 2 249	572	U'n 2 95	U'n 2 105	204	418	358	776
November	226	200	426	75	79	154	U'n 5 301	U'n 2 279	587	U'n 3 82	U'n 2 82	169	391	365	756
December	257	251	508	89	83	172	U'n 3 346	U'n 1 334	684	U'n 4 90	U'n 4 104	202	443	443	886
Total	3061	2739	5800	923	874	1797	4027	3632	7659	1214	1268	2482	5341	4900	10141

TABLE No. VIII.

SHOWING THE NUMBER OF DEATHS ACCORDING TO WARDS DURING THE YEAR 1903.

WARDS.	Jan.	Feb.	Mar.	April.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
First	37	30	23	24	23	20	35	32	31	28	38	34	355
Second	47	34	26	38	33	35	40	47	25	38	24	28	415
Third	44	34	35	25	35	30	49	46	35	24	28	22	407
Fourth	62	47	60	52	37	42	69	42	57	55	48	49	620
Fifth	39	22	24	31	37	35	40	23	36	23	21	29	360
Sixth	31	27	51	28	36	27	41	36	22	26	23	32	380
Seventh	48	35	32	38	38	32	49	46	31	28	28	34	439
Eighth	40	31	35	33	21	26	43	30	26	24	21	44	374
Ninth	37	26	21	25	23	26	27	33	23	32	23	38	334
Tenth	42	35	49	43	35	26	37	45	25	22	25	42	426
Eleventh	44	60	40	39	27	31	37	30	28	35	35	41	447
Twelfth	64	32	32	38	31	23	42	36	29	34	34	36	431
Thirteenth	35	31	19	25	22	21	37	22	25	19	18	26	300
Fourteenth	77	55	68	42	54	31	76	40	45	56	48	55	647
Fifteenth	26	33	30	28	22	20	53	36	22	32	23	34	359
Sixteenth	38	31	34	30	30	25	40	32	31	32	32	42	397
Seventeenth	38	38	48	37	31	36	44	36	27	34	31	45	445
Eighteenth	38	41	36	40	32	32	62	37	25	38	37	25	443
Nineteenth	34	43	28	28	39	27	42	27	32	26	35	48	409
Twentieth	28	24	30	30	18	26	35	33	14	30	28	27	323
Twenty-first	32	21	28	17	19	29	38	28	23	22	19	30	306
Twenty-second	51	33	39	36	34	29	47	44	22	27	33	37	432
Twenty-third	33	35	38	24	31	18	40	29	28	31	37	31	375
Twenty-fourth	37	30	35	31	21	27	44	34	25	29	39	32	384
Bayview Asylum	28	34	41	23	24	33	30	16	20	31	28	25	333
Total	1030	862	902	805	753	707	1097	860	707	776	756	886	10141

TABLE No. IX.—SHOWING THE NUMBER OF DEATHS IN HOSPITALS, PUBLIC INSTITUTIONS, INQUESTS, ETC., DURING THE YEAR 1903.

HOSPITALS, INSTITUTIONS, ETC.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Hospitals—Resident, white	71	53	49	30	45	54	55	64	58	42	51	62	634
" " colored	23	19	24	16	11	18	25	18	17	17	12	27	227
" Non-resident, white	21	21	21	25	19	24	27	28	26	25	28	21	286
" " colored	7	2	4	6	3	2	7	8	8	5	4	5	61
OTHER INSTITUTIONS, ASYLUMS, ETC.													
Resident, white	40	30	32	19	22	31	38	38	19	24	23	19	335
" colored	3	4	7	9	7	5	18	8	8	7	2	8	86
Non-resident, white	2	3	4	8	4	1	2	2	2	1	3	4	36
" colored	.....	2	.....	1	.....	1	.....	.....	1	.....	.....	1	6
Jail	.....	1	1	.....	1	.....	.....	.....	1	1	2	.....	7
Penitentiary	.....	2	2	1	1	.....	2	.....	1	1	.....	.....	10
Total.	167	137	144	115	113	136	174	166	141	123	125	147	1688
Coroners' Inquests	99	88	71	85	90	80	110	88	78	76	90	101	1056
Autopsies	8	11	5	8		10	12	3	3	6	9	9	88

TABLE X.

SHOWING THE NUMBER OF DEATHS ACCORDING TO OCCUPATION DURING THE YEAR 1903.

Bakers.	Blacksmiths.	Bookkeepers and Clerks.	Bricklayers.	Butchers.	Carpenters.	Cigarmakers.	Drivers.	Druggists.	Electrical Workers.	Engineers.	Firemen.	Housewives.	Jewelers and Watchmakers.	Laborers.	Laundresses.	Liquor Dealers.	Machinists.	Moulders.	Nurses.	Painters.	Paperhangers.	Planing Mill Workers.	Physicians.	Policemen.	Printers and Engravers.	Saloonkeepers.	Seamstresses.	Steam Railway Employes.	Street Railway Employes.
3	3	18	4	4	12	5	16	.....	2	3	3	198	.....	92	7	.....	5	2	1	4	.....	.....	6	5	4	5	4	6	2
.....	2	24	1	1	9	6	17	.....	1	.....	.....	138	1	67	8	.....	3	.....	4	7	1	.....	1	.....	.....	12	9	4	.....
2	5	24	.....	1	10	6	12	2	.....	4	4	156	1	60	7	.....	3	.....	.....	7	1	2	2	1	2	4	12	3	1
3	3	13	1	3	9	4	10	.....	2	3	3	155	3	59	5	.....	8	4	2	3	.....	3	3	.....	2	7	4	5	1
3	4	16	3	3	7	3	4	.....	1	1	1	156	.....	66	8	.....	3	2	1	3	.....	1	2	8	2	2	6	1	2
.....	1	7	1	3	6	3	9	1	2	4	1	94	.....	62	5	.....	3	3	2	7	.....	.....	.....	3	.....	2	6	1	1
1	7	8	1	3	8	3	15	.....	3	4	.....	106	.....	62	7	.....	5	4	4	4	.....	2	1	2	1	2	7	3	1
1	3	12	5	4	6	2	9	2	2	4	3	101	.....	46	6	.....	4	2	1	4	.....	.....	3	2	1	4	8	5	1
.....	3	15	2	3	9	4	7	3	1	3	3	91	.....	58	10	.....	3	2	2	4	1	.....	2	6	1	3	5	.....	2
2	.....	17	3	2	11	5	9	1	.....	4	1	99	1	76	10	1	6	2	1	3	3	1	2	4	4	2	9	2	1
3	2	19	.....	3	5	.....	9	2	.....	.....	.....	126	.....	52	7	1	4	3	.....	9	.....	.....	.....	3	3	6	5	1	2
2	4	18	1	8	18	5	11	.....	.....	3	3	148	....	69	8	.....	3	1	3	3	1	.....	2	3	4	2	6	3	.....
20	37	191	22	38	110	46	128	11	14	33	22	1568	6	769	88	2	50	25	21	58	7	9	24	37	22	51	81	34	14

TABLE No. XI.

SHOWING DEATHS ACCORDING TO SOCIAL CONDITION DURING THE YEAR 1903.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
...	210	150	173	157	166	135	135	107	126	110	167	117	258	192	205	162	158	112	146	123	153	115
...	159	118	138	88	126	82	130	100	112	97	100	58	119	99	111	72	96	72	140	66	108	77
...	.....	103	.. ..	87	.....	121	.....	78	.....	64	.....	60	.....	73	.....	81	.....	61	.....	61	.....	84
...	55	.....	37	.....	36	.....	36	....	45	.....	35	.....	48	.....	21	.....	24	.....	33	.....	39	.....
..	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	2	.....	.....	.....	.....	1	1	1	1	2
...	1	1	1	.....	3	1	2	.....	2	1	4	.....	3	.....	4	3	2	.....	1	.. ..	5	3
...	425	372	349	332	331	339	304	287	285	272	306	235	430	364	341	318	280	246	321	251	306	281
...	71	54	51	46	76	74	66	65	60	49	48	53	106	107	70	61	55	62	65	60	46	48
...	38	31	30	20	27	22	24	24	33	24	24	18	31	22	15	25	22	14	25	26	29	20
...	.....	27	.....	25	.....	23	.....	22	.....	23	.....	12	.....	23	.....	22	.....	14	.....	20	.....	13
...	11	.....	6	.....	9	.....	10	.....	6	.....	10	.....	9	.....	4	.....	7	.....	5	.....	10	.....
...	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	1	.....	2	1	1	.....	2	.....	1	.....	1	.....	2	3	3	1	5	2	2	1	.....	3
..	121	112	89	92	113	119	103	111	100	96	83	83	148	155	92	109	89	92	97	107	85	84

	Scarlet fever.	Whooping cough.	Diphtheria and pseudo-membranous croup.	Croup.	Tuberculosis of the lungs.	Other tuberculous diseases.	Cancer.	Diseases of the nervous system.	Heart diseases.	Bronchitis.	Pneumonia.	Diseases of the digestive system.	Diarrhœal diseases, under five years.	Diarrhœal diseases, over five years	Bright's disease.	Puerperal fever.	Congenital debility, premature births, etc.	Suicides.	Accidents.	Murder.	All other diseases.	Deaths under five years of age.	TOTAL DEATHS
..	2	6	11	.....	102	18	31	107	92	36	186	39	8	6	70	7	28	5	38	.....	197	293	1030
..	1	2	14	3	91	13	28	95	52	30	156	34	5	5	51	6	23	3	38	3	181	258	862
..	4	4	8	.....	109	26	28	87	63	30	143	40	8	8	75	6	27	2	34	.....	178	243	902
..	6	3	10	.....	115	18	19	87	69	20	103	41	5	4	71	7	19	10	28	1	149	201	805
..	11	3	13	.....	100	12	31	91	62	18	74	39	6	4	54	6	24	7	32	1	149	172	753
..	6	7	4	1	90	13	27	75	54	12	47	46	59	6	37	2	27	9	29	3	144	231	707
..	11	9	8	.....	97	22	40	91	60	15	41	51	226	7	58	4	81	5	43	1	205	506	1097
..	11	10	7	.....	87	14	37	66	55	12	30	49	131	5	48	6	64	5	39	1	157	342	860
..	8	7	12	.....	92	14	31	64	38	11	41	37	54	10	45	2	39	2	42	2	128	224	707
..	9	6	22	1	91	8	41	66	74	12	64	56	27	3	57	4	43	1	18	1	151	222	776
2	6	3	19	2	102	9	27	69	69	13	94	41	15	5	57	2	41	2	25	.....	134	202	756
1	9	4	24	1	110	13	30	84	69	26	122	43	6	5	70	5	34	7	36	1	173	208	886
7	84	64	152	8	1186	180	370	982	757	235	1101	516	550	68	693	57	450	58	402	14	946	3102	10141

TABLE No. XIII.

SHOWING THE NUMBER OF DEATHS FROM ALL CAUSES DURING THE YEAR 1903.

DISEASES.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
I.—GENERAL DISEASES.													
1. Typhoid fever	15	7	8	14	11	9	19	26	28	20	19	13	189
2. Typhus fever													
3. Recurrent fever													
4. Intermittent fever and malarial cachexia	1	2		3	1		1	1		4	3	2	18
5. Smallpox				1						1			2
6. Measles	26	21	14	5	5		3				2	1	77
7. Scarlet fever	2	1	4	6	11	6	11	11	8	9	6	9	84
8. Whooping cough	6	2	4	3	3	7	9	10	7	6	3	4	64
9. Diphtheria and croup—													
a. Diphtheria	11	12	8	8	11	3	6	7	10	18	17	19	130
b. Membranous croup		2		2	2	1	2		2	4	2	5	22
c. Croup		3				1				1	2	1	8
10. Influenza (La Grippe)	11	32	29	6	7	2					2	3	92
11. Miliary fever													
12. Asiatic cholera													
13. Cholera nostras						2	3		2	1			8
14. Dysentery	3	1	1	3	2	4	7	9	5	3	1	1	40
15. Bubonic plague													
16. Yellow fever													
17. Leprosy													
18. Erysipelas	6	6	2	3	3	3					2	1	26
19. Other epidemic affections—													
a. Mumps				1									1
b. Varicella													
c. Rubeola, etc													

20. Purulent infection and septicæmia	3	4	3	.....	.....	1	8	6	4	1	2	3	35
21. Glanders and farcy	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22. Malignant pustule and charbon	1	1	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	2
23. Rabies	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24. Actinomycosis, trichinosis, etc	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
25. Pellagra	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
26. Tubercle of the larynx	5	2	9	1	2	1	1	3	2	1	1	2	30
27. Tubercle of the lungs	102	91	109	115	100	90	97	87	92	91	102	110	1186
28. Tubercle of the meninges	4	6	7	10	5	6	8	4	6	3	4	5	68
29. Tubercle of the abdominal cavity	5	2	8	6	3	3	7	1	2	3	2	4	46
30 Potts' disease	.....	.....	1	.....	.....	.....	.....	.....	2	..	2	.....	5
31. Abscess (cold and by congestion)	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
32. White swelling	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	3
33. Tubercle of other organs	2	1	1	1	2	2	4	1	1	.....	2	1	18
34. Generalized tubercle	2	2	1	.....	.....	1	2	5	3	1	.....	1	18
35. Scrofula	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	3
36. Syphilis	2	.....	2	4	.....	.....	4	2	6	5	1	1	27
37. Blenorrhagia of the adult	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
38. Gonococcic infection of children	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cancers and Other Malignant Tumors—													
39. Cancer of the buccal cavity	3	1	3	.....	.....	1	1	.....	1	.....	2	2	14
40. Cancer of the stomach and liver	11	13	19	5	15	10	18	16	10	19	13	14	154
41. Cancer of the peritoneum, intestines or rectum	3	4	6	1	.....	5	4	5	5	1	2	3	39
42. Cancer of the female genital organs	6	2	4	5	7	7	9	9	8	6	4	6	73
43. Cancer of the breast	4	4	1	2	1	2	2	2	4	5	2	3	32
44. Cancer of the skin	.....	1	.....	1	2	.....	1	1	.....	..	....	.....	6
45. Cancer of the other organs and those not specified	4	3	4	5	6	2	5	4	3	10	4	2	52
46. Other tumors (tumors of the female genital organs excepted)	1	1	2	4	1	3	2	.....	.....	2	2	.....	18
47. Rheumatism—acute, articular	4	2	2	3	7	4	7	3	1	3	1	11	48
48. Rheumatism—chronic and gout	2	2	....	.....	2	.....	1	.....	1	.....	..	2	10
49. Scorbutus	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
50. Diabetes	6	4	4	.....	2	5	9	4	4	7	3	7	55

TABLE No. XIII—Continued.

Diseases.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
51. Exophthalmic goitre	1	1	.....	.....	.....	.....	2	.....	1	1	.....	.....	6
52. Addison's disease	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	3
53. Leukæmia	1	.....	1	.....	3	.....	.....	1	1	.....	2	1	10
54. Anæmia and chlorosis	1	1	2	2	5	2	1	4	3	4	5	3	33
55. Other general diseases	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
56. Alcoholism, acute and chronic	7	2	5	3	3	3	4	6	3	.....	5	5	46
57. Lead poisoning	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	2
58. Other professional intoxications	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59. Other chronic poisonings	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
II.—Diseases of the Nervous System and the Organs of Special Sense.													
60. Encephalitis	.....	.....	.....	.....	.....	.....	1	1	1	1	1	.....	5
61. Meningitis, simple	5	4	9	8	7	11	11	7	1	6	5	9	83
" cerebro-spinal	3	2	1	2	2	5	2	3	2	3	2	2	29
" cerebral	1	1	1	4	2	2	1	.....	2	1	1	3	19
" spinal	2	.....	.....	1	.....	.....	.....	.....	.....	1	1	1	6
62. Progressive locomotor ataxia	1	.....	1	3	1	1	2	1	.....	1	2	2	15
63. Other diseases of the spinal cord	2	5	2	2	3	3	1	.....	4	1	2	5	30
64. Congestion and hemorrhage of the brain	43	35	37	28	39	27	36	24	23	23	31	23	369
65. Cerebral softening	5	1	2	2	.....	1	4	1	1	2	2	1	22
66. Paralysis without specific cause	15	20	13	15	18	10	9	13	11	12	9	20	165
67. General paralysis	2	1	.....	.....	1	.....	2	.....	3	1	.....	3	13
68. Other forms of insanity	.....	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	3
69. Epilepsy	.....	2	.....	3	2	.....	.....	1	2	2	2	5	19
70. Convulsions, non-puerperal	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	3
71. Convulsions of infants	19	19	14	10	9	11	17	6	9	6	5	8	133

72. Tetanus	2	.....	2	3	1	2	2	4	1	.....	2	.....	19
73. Choræ	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	2
74. Other nervous diseases	7	5	3	5	6	2	3	5	4	3	2	2	47
75. Diseases of the eye and its adnexa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
76. Diseases of the ear and its adnexa	1	1	2	1	1	.....	1	3	1	1	.....	1	13
III.—Diseases of the Circulatory System.													
77. Pericarditis	2	3	.....	1	.....	1	.....	1	1	.....	.....	.....	9
78. Endocarditis	6	5	5	6	6	3	3	6	2	7	6	3	58
79. Organic heart diseases	77	41	56	61	51	48	55	44	35	64	58	60	650
80. Angina pectoris	7	3	2	1	5	2	2	4	.....	3	5	6	40
81. Affections of the arteries, atheroma, aneurism, etc	16	12	7	12	6	9	7	9	6	8	10	12	114
82. Embolus and thrombosis	.....	1	2	2	.....	1	1	.....	.....	.....	1	.....	8
83. Affections of the veins, varices, hemorrhoids, phlebitis	1	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	4
84. Affections of the lymphatic system, lymphangitis, etc	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
85. Hemorrhages	1	1	1	1	.....	1	2	2	1	1	1	1	13
86. Other diseases of the circulatory system	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IV.—Diseases of the Respiratory System.													
87. Diseases of the nasal fossae	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
88. Affections of the larynx	.....	.....	3	.....	.....	.....	.....	1	.....	2	1	.....	7
89. Affections of the thyroid body	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	.....	3
90. Acute bronchitis	23	15	12	13	10	7	9	4	2	4	9	10	118
91. Chronic bronchitis	13	15	18	7	8	5	6	8	9	8	4	16	117
92. Broncho-pneumonia	57	43	41	20	19	12	18	14	12	16	26	28	306
93. Pneumonia	129	113	102	83	55	35	23	16	29	48	68	94	795
94. Pleurisy	3	2	3	2	1	.....	2	1	.....	3	.....	3	20
95. Congestion of the lungs (including pulmonary apoplexy)	3	1	3	1	3	3	3	.....	.....	.....	2	6	25
96. Gangrene of the lung	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE No. XIII—Continued.

Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
97. Asthma	2	.....	1	6	8	5	2	1	2	3	1	7	38
98. Pulmonary emphysema	1	1	2	1	.....	1	.....	.....	.....	.....	.....	2	8
99. Other diseases of the respiratory apparatus (phthisis excepted)	5	1	6	2	3	4	2	.....	3	3	7	3	39
V.—Diseases of the Digestive Apparatus.													
100. Affections of the mouth and its adnexa	1	.....	.....	1	1	1	2	1	2	.....	.....	.....	9
101. Affections of the pharynx	.....	.....	.....	2	.. ..	2	.....	.....	.....	.....	.....	1	5
102. Affections of the œsophagus	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	4
103. Ulcer of the stomach	1	1	1	.....	2	.....	.....	2	1	3	1	3	16
104. Other affections of the stomach (cancer excepted)	12	9	9	11	11	21	22	22	7	13	12	17	166
105. Diarrhœa and enteritis, under five years	8	5	8	5	6	59	226	131	54	27	15	6	550
106. Diarrhœa and enteritis, over five years	6	5	8	4	4	6	7	5	10	3	5	5	68
107. Intestinal parasites	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
108. Hernia and intestinal obstructions	5	10	11	2	4	5	6	7	12	10	6	3	81
109. Other affections of the intestines	1	.....	1	3	3	1	1	.....	2	1	3	5	21
110. Icterus gravis	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	4
111. Hydatid tumor of the liver	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112. Cirrhosis of the liver	5	5	4	12	3	1	7	6	2	10	7	3	65
113. Biliary calculi	1	1	1	2	2	3	1	1	3	3	2	.....	20
114. Other affections of the liver	5	3	4	2	1	1	2	1	.....	7	5	.....	35
115. Affections of the spleen	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
116. Peritonitis (non-puerperal)	2	2	.....	1	2	2	4	3	4	3	1	.....	24
117. Other affections of the digestive apparatus (cancer and tubercle excepted)	.....	.....	.....	.....	3	.....	1	.....	.....	.....	.....	.....	4
118. Appendicitis and abscess of iliac fossæ	3	3	7	5	7	7	5	6	3	5	2	7	60

VI.—Diseases of the Genito-Urinary Apparatus and Its Adnexa.													
119. Acute nephritis	6	2	7	.....	3	5	5	2	4	8	9	7	58
120. Bright's disease	70	51	75	71	54	37	58	48	45	57	57	70	693
121. Other diseases of the kidneys and their adnexa	4	1	1	1	2	1	3	5	3	1	1	1	24
122. Calculi of the urinary tract	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	4
123. Diseases of the bladder	2	1	1	1	3	.....	.....	1	2	3	4	1	19
124. Diseases of the uretha (urinary abscess, etc.)	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2
125. Diseases of the prostate	1	3	3	1	1	1	3	2	.....	2	.....	4	21
126. Non-venereal diseases of male genital organs	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	3
127. Metritis	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
128. Uterine hemorrhage (non-puerperal)	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
129. Uterine tumor (not cancer)	1	1	1	3	1	1	5	1	2	1	2	3	22
130. Other diseases of the uterus	1	1	.....	.....	1	1	1	1	1	.....	1	1	9
131. Cysts and other tumors of the ovary	1	.....	1	.....	1	.....	4	.....	.....	.....	2	.....	9
132. Other diseases of female genital organs	1	3	2	3	.....	.....	1	1	1	2	2	3	19
133. Diseases of the breast (non puerperal nor cancerous)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VII.—The Puerperal State.													
134. Accidents of pregnancy	3	.....	.....	1	4	.....	2	1	1	2	1	1	16
135. Puerperal hemorrhage	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2
136. Other accidents of labor	.....	.....	1	.....	1	.....	5	.....	1	1	2	1	12
137. Puerperal septicæmia	7	6	6	7	6	2	4	6	2	4	2	5	57
138. Puerperal albuminuria and convulsions	1	2	1	3	4	1	.....	2	1	1	1	5	22
139. Phlegmasia alba dolens	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
140. Other accidents of pregnancy (sudden death)	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
141. Puerperal diseases of the breast	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VIII.—Diseases of the Skin and Cellular Tissue.													
142. Gangrene	3	1	1	2	5	2	3	.....	.....	1	2	1	21
143. Furuncle (carbuncle)	.....	1	.....	.....	.....	.....	.....	2	1	.....	.....	.....	4

TABLE No. XIII—Continued.

Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
144. Phlegmon, warm abscess	2	2	1	.....	.....	2	.....	.....	.....	1	.....	1	9
145. Other diseases of the skin and its adnexa (cancer excepted)..	.....	.....	1	.....	2	1	2	2	.....	.....	1	.....	9
IX.—Diseases of the Organs of Locomotion.													
146. Affections of the bones.	3	1	1	2	.....	4	3	1	.....	.....	2	2	19
147. Arthritis and other diseases of the joints (tubercle and rheumatism excepted)	.....	.....	1	.....	.....	.....	.....	1	.....	.....	1	1	4
148. Amputations (for unspecified disease)	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....
149. Other affections of the organs of locomotion	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
X.—Malformations.													
150. Malformations	8	4	2	1	4	2	2	6	4	5	4	2	44
XI.—Early Infancy.													
151. Congenital debility, jaundice, and sclerema (premature birth)	28	23	27	19	24	27	81	64	39	43	41	34	450
152. Other diseases of infancy	.....	2	2	2	1	2	3	1	1	1	.....	1	16
153. Lack of care (malnutrition, etc.)	26	37	31	37	30	35	50	40	23	31	21	25	386
XII.—Old Age.													
154. Senile debility	37	28	27	23	17	23	23	20	12	16	9	23	258
XIII.—Affections Produced by External Causes.													
155. Suicide by poison	1	.....	1	1	3	4	.....	1	1	.....	.....	1	13

156. Suicide by asphyxia		1		4		1	2	1				1	10
157. Suicide by hanging or strangulation				1	1		1	1	1			2	7
158. Suicide by drowning	1				1								2
159. Suicide by firearms	3	2	1	1	1	2	2	1		1	1	1	16
160. Suicide by cutting instruments				3				1			1	2	7
161. Suicide by a precipitation from a height					1	2							3
162. Suicide by crushing													
163. Suicide by other methods													
164. Fractures:													
a. Of the femur	4	3	1	2	3	3	2	1	4	2		4	29
b. Of the skull	4	6	1	2	1	4	5	2	4			1	30
c. Of the vertabræ			1		1		2	1					5
d. Others	1	1	1			1			3	1			8
165. Dislocations													
166. Other accidental injuries:													
a. Dystocia (child)	2	2	4	1	1	1	1	4	1		1	1	19
b. Electric shock	1	1		1	1	1		1	1	1			8
c. Falls	2	3	3	1	4	3	7	4	8	3	4	3	45
d. Gunshot	1		1			3	1				3		9
e. Mining accidents		1			2								3
f. Railroad accidents and injuries	9	8	4	5	6	2	3	7	6	1	2	8	61
g. Vehicles and horses	1		3		2		1		1		1		9
167. Burning:													
a. Fire (burn)	5	7	3	6	2	1	2	4	3	2	7	7	49
b. Scald (hot liquid)	2				1			1	1	1	1	1	8
168. Burning by corrosive substances													
169. Sunstroke (insolation)							11	4					15
170. Freezing			1										1
171. Electrical disturbances													
172. Accidental drowning	2		4	5	5	5	4	5	8	2	2	2	44
173. Inanition	1												1
174. Absorption of deleterious gases (suicide excepted)	3	2	4	5		1	1				1	4	21
175. Other acute poisonings	1		2					4	2	2	1	4	16

TABLE No. XIII—Concluded.

Diseases.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
176. Other external violence:													
a. Homicide	.....	3	.....	1	1	3	1	1	2	1	.....	1	14
b. Legal executions	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c. Other accidents	.....	4	1	.....	3	4	3	1	.....	3	2	1	22
XIV.—Ill-Defined Causes.													
177. Dropsy	2	.....	1	1	2	.....	.....	.....	1	.....	2	3	12
178. Sudden death (non-puerperal)	3	4	4	6	4	2	2	1	3	1	.....	3	33
179. Unspecified or ill-defined causes	4	4	1	1	4	3	12	9	20	18	11	8	95
Total	1030	862	902	805	753	707	1097	860	707	776	756	886	10141

SHOWING TOTAL DEATHS AND DEATHS FROM ZYMOTIC DISEASES FOR TWENTY-NINE YEARS, WITH PERCENTAGE OF DEATHS TO TOTAL MORTALITY FROM 1875 TO 1903, INCLUSIVE.

1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	18
7,258	7,498	7,910	6,733	7,618	8,043	8,816	8,923	9,380	8,035	8.153	8,339	8,244	8,936	9,365	10,198	10,073	10,582	9,554	9,486	10,301	9,919	9,3
22.33	22.38	22.60	18.44	1,930	20.41	22.37	21 81	22.93	20.77	19.55	19.98	19.16	17 87	17.40	22 41	22.14	23.25	20.99	20.84	20.76	19.60	18
560	588	538	655	620	636	651	677	701	746	650	718	669	694	784	800	811	813	770	721	666	678	7
1.70	1.75	1.53	1.79	1.57	1.61	1.65	1.71	1.71	1.82	1.59	1.72	1.60	1.63	1.84	1.75	1.78	1.78	1.69	1.58	1.34	1.33	1
238	249	557	452	384	476	881	929	792	470	400	318	302	216	206	319	394	428	210	231	310	281	
519	562	447	141	80	400	215	179	334	104	68	32	36	44	71	42	128	258	36	85	59	31	
187	176	201	175	367	196	197	165	126	151	155	150	156	161	191	247	150	193	224	222	173	188	
53	25	17	26	1	26	37	38	42	20	24	24	19	22	18	31	18	38	59	26	27	32	
78	39	303	63	80	148	93	43	59	120	63	91	98	112	54	100	103	32	60	112	68	87	
15	43	151	11	43	12	75	71	130	228	16	201	85	176	11	248	16	120	39	3	68	27	
1	.....	... .	1	1	1	11	551	633	1	.....	1	.....	....	.....	.....	....	....	.....	.....	.....	.....	.....
1,091	1,094	1,676	869	956	1,259	1,509	1,976	2,116	1,094	726	817	696	731	551	987	809	1,069	628	679	705	646	
15.03	14.59	21.18	12.90	12.53	15.65	17.11	22.14	22 25	1,351	8.90	9.78	8.46	8 18	5.88	9 67	8.03	10.10	6.57	7.15	6.84	6 51	7

TABLE No. XV.

OF CASES REPORTED AND MORTALITY FROM THE PRINCIPAL ZYMOTIC DISEASES DURING THE YEARS 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901 AND 1902, COMPARED WITH 1903, WITH PERCENTAGE OF DEATH TO CASES REPORTED IN EACH YEAR.

Deaths reported in 1895.	Percentage of Deaths in 1895.	Cases reported in 1896.	Deaths reported in 1896.	Percentage of Deaths in 1896.	Cases reported in 1897	Deaths reported in 1897.	Percentage of Deaths in 1897.	Cases reported in 1898.	Deaths reported in 1898.	Percentage of Deaths in 1898.	Cases reported in 1899.	Deaths reported in 1899.	Percentage of Deaths in 1899.	Cases reported in 1900.	Deaths reported in 1900.	Percentage of Deaths in 1900.	Cases reported in 1901.	Deaths reported in 1901.	Percentage of Deaths in 1901.	Cases reported in 1902.	Deaths reported in 1902.	Percentage of Deaths in 1902.
265	71.42	480	249	51.87	1491	347	23 27	2077	412	19.83	1780	312	17 52	1858	279	15.01	1169	171	14.62	972	130	13.37
59	7.61	694	31	4.46	928	53	5.71	588	46	7 82	434	24	5.52	402	20	4 97	391	11	2.81	481	37	7 69
45	17.44	173	32	12.65	129	13	10.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
68	2.91	1002	27	2.69	659	16	2.42	1419	48	3.38	591	5	0.84	2770	24	0.86	466	3	0.64	1909	41	2.10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.. ..	68	2	2 94	47	1	2.12	119	.....	.....	183	.... ..	.....	192	.....	.....	199	1	0.50	231	.....	....
68	39.76	266	87	32.87	213	42	19.71	335	64	19.10	129	19	15.83	239	47	19 66	257	63	21.51	395	95	24.05
2	3.22	73	1	1.36	132	.....	... .	22	.....	.....	26	.....	.....	160	.....	.....	214	1	0.47	71	1	1.40
173	66.53	472	188	39.83	363	189	52.06	545	186	34.68	462	153	33.11	871	189	21.70	792	141	17.80	1086	220	20.26
11.41	.....	... ..	1122	.....	.....	1047	.....	.....	1061	.....	.....	974	.....	274	1056	385.40	384	1274	331.77	356	1297	364.33
933	.....	.....	884	.....	.....	759	....	.....	889	.....	.....	898	....	.....	1303	.....	.....	1147	.....	.....	1010	.....	....
510	.....	.....	412	.....	.....	401	.....	.....	386	.....	..... .	.....	....	.....	.....	.....	.. ..	.....	....	.....	.....	.....	...

arrhoea, etc.

TABLE No. XVI.

SHOWING THE NUMBER OF DEATHS ANNUALLY FROM TYPHOID FEVER DURING A PERIOD OF SIXTEEN YEARS FROM 1888 TO 1903, INCLUSIVE, MALE AND FEMALE, WHITE AND COLORED, IN THE CITY OF BALTIMORE.

YEAR.	Estimated Population.	WHITE.			COLORED.			Total Males.	Total Females.	Total Deaths.
		Males.	Females.	Total.	Males.	Females.	Total.			
1888	395,899	88	90	178	80	14	94	168	104	272
1889	404,498	88	93	181	23	20	43	111	113	224
1890	413,671	135	109	244	26	31	57	161	140	301
1891	426,917	82	75	157	13	19	32	95	94	189
1892	440,163	90	102	192	19	15	34	109	117	226
1893	453,409	108	120	228	11	16	27	119	136	255
1894	466,665	103	104	207	23	27	50	126	131	257
1895	479,907	82	75	157	21	14	35	103	89	192
1896	493,147	93	81	174	16	14	30	109	95	204
1897	506,398	99	76	175	20	14	34	119	90	209
1898	541,000	96	62	158	19	24	43	115	86	201
1899	541,000	67	52	119	18	16	34	85	68	153
1900	541,000	83	69	152	21	16	37	104	85	189
1901	518,000	66	44	110	11	20	31	77	64	141
1902	525,000	99	73	172	24	24	48	123	97	220
1903	533,000	79	58	137	26	26	52	105	84	189

TABLE No. XVII.

COMPARISON OF DEATHS FROM ALL CAUSES, AND FROM SPECIFIED AND CONTAGIOUS DISEASES FOR TWENTY-SEVEN YEARS, FROM 1877 TO 1903, INCLUSIVE.

YEARS.	Population.	Measles.	Scarlet Fever	Typhoid Fever.	Croup.	Diphtheria and Pseudo-Membranous Croup.	Whooping-Cough.	Dysentery.	Cholera Infantum.	Children Under 5 Yrs.	Total Mortality. All Causes.
1877	311,275	161	597	235	157	455	297	52	616	4,584	7,910
1878	318,182	11	141	176	149	303	63	41	343	3,372	6,733
1879	325,139	43	367	166	186	298	80	60	475	3,385	7,618
1880	332,313	12	400	196	173	293	148	57	503	3,602	8,043
1881	339,649	162	215	197	242	639	93	56	558	3,919	8,116
1882	347,142	71	179	165	122	707	43	62	390	3,755	8,923
1883	354,832	130	334	126	201	591	59	52	473	4,062	9,380
1884	362,668	228	104	151	127	343	120	43	496	3,643	8,293
1885	370,696	16	68	155	148	252	63	60	498	3,228	8,153
1886	378,903	201	32	150	128	190	91	84	485	3,565	8,339
1887	387,300	85	36	156	153	149	98	137	567	3 477	8,372
1888	395,899	176	44	161	98	118	112	167	654	3,881	8,936
1889	404,498	11	71	191	53	155	54	156	572	3,505	8,703
1890	413,671	248	42	247	45	274	100	212	507	4,117	10,198
1891	426,917	16	128	150	44	350	103	118	531	3,910	10,073
1892	440,163	120	258	193	47	381	32	109	661	4,443	10.582
1893	453,409	39	36	224	25	185	60	62	444	3,604	9,554
1894	466,655	3	85	222	33	198	112	72	440	3,761	9,486
1895	479,907	68	59	173	45	265	68	70	510	4,026	10,301
1896	493,147	27	31	188	32	249	87	82	412	3,728	9,919
1897	506,398	16	53	189	13	347	42	57	401	3,510	9,329
1898	541,000	48	46	189	50	362	64	82	386	3,939	10,385
1899	541,000	5	24	153	.....	312	19	.....	.....	3,319	10,152
1900	541,000	24	20	189	12	267	47	77	848	3,695	10,700
1901	518,000	3	11	141	7	164	63	49	726	3,391	10,479
1902	525,000	41	37	220	9	121	95	78	695	3,327	10,253
1903	533,000	77	84	189	8	152	64	40	550	3,102	10,141

Financial Statement.

Original appropriation, salaries $57,836 00

EXPENDITURES.

Salaries to December 1, 1903:

Commissioner of Health, James Bosley, M.D....	$3,500 04	
Asst. " " C. Hampson Jones, M.D.	2,000 04	
Secretary, J. W. M. Kiger.....	1,500 00	
Assistant Secretary, Arthur D. Thompson.....	1,080 00	
Permit Clerk, Harry C. Andrews.....	999 96	
Registrar's Clerk, John H. Uhlenberg.....	900 00	
Laboratory Clerk, John A. Campbell.....	900 00	
Index Clerk, George C. Wedderburn	900 00	
" Charles A. Wall, Jr.....	900 00	
Nuisance Clerk, Francis X. Jenkins.....	900 00	
Insp. of Throats, { Allan W. Smith, M.D., 6 mos.	399 96	
{ Dr. W. P. Stubbs, 6 mos.	399 96	
Medical Examiner, Dr. N. G. Keirle.....	1,500 00	
Assistant Medical Examiner, Dr. B. P. Muse.....	499 92	
Inspector of Bakeries, Henry J. Hahn.....	900 00	
Inspector of Dairies, George F. Schultz.....	900 00	
Driver of Funeral Wagon, Aug. Rittmiller.....	720 00	
" " " H. M. North.....	720 00	
Disinfector, Thomas E. Morse.....	799 92	
" George W. Phillips.....	799 92	
Insp. Plumbing and Drainage, Jos. C. Mitchell..	1,200 00	
Asst. Insp. " " Geo R. Minnick.	900 00	
" " " C. H. Inderrieden.	900 00	
Inspector of Drains, Francis A. Ebberts.....	900 00	
Superintendent of Morgue, Patrick R. Glynn...	900 00	
Maker of Disinfectants, Wm. E. Woodall	799 92	
Commissioner's Clerk, Eleazer Goldberg.....	799 92	
Chemist, Gustav W. Lehmann.....	1,500 00	
Bacteriologist, Wm. Royal Stokes, M.D.	1,500 00	
Inspector of Food, Wm. B. Roth.....	900 00	
" " Charles Knell.....	900 00	
" " Herbert G. Wilson	900 00	
" " Charles A. Lerian, 11 mos ...	825 00	
" " Charles M. Brodwater.....	900 00	
Laboratory Asst., { R. deM. Taveau, 3 mos.....	105 00	
{ John Johns, 9 mos..	315 00	
Amounts carried forward.....	$35,464 56	$57,836 00

Amounts brought forward	$35,464 56	$57,836 00
Laboratory Assistant, John B. Weilage	180 00	
" " George Karl	180 00	
" " Grover Benser	192 00	
Messenger, J. Chas. Roemer, 4 mos., 16 days..	54 19	
" Leonard Campbell, 4 mos., 15 days	53 81	
" James Bachen, 3 months	36 00	
Health Warden, 1st Ward, Dr. J. W. Williams....	900 00	
" " 2d " Dr. C. M. Schulte.....	900 00	
" " 3d " Dr. J. A. Schulte.....	900 00	
" " 4th " Dr. Thos. Sudler.....	900 00	
" " 5th " Dr. F. A. Sauer.....	900 00	
" " 6th " Dr. A. C. Hearn.....	900 00	
" " 7th " Dr. Alex. S. Gage. ..	900 00	
" " 8th " Dr. J. Wm. France. ..	900 00	
" " 9th " Dr. H. Y. Westbrook.	900 00	
" " 10th " Dr. John F. Hempel..	900 00	
" " 11th " Dr. Claude VanBibber	900 00	
" " 12th " Dr. T. L. Richardson	900 00	
" " 13th " Dr.. D. S. Williams...	900 00	
" " 14th " Dr. Arthur G. Barrett	900 00	
" " 15th " Dr. Jas. L. Ridgely...	900 00	
" " 16th " Dr. M. K. Warner.....	900 00	
" " 17th " Dr. Howard D. Lewis	900 00	
" " 18th " Dr. Robert A. Warner	900 00	
" " 19th " Dr. Marshall G. Smith	900 00	
" " 20th " Dr. Henry J. Hahn...	900 00	
" " 21st " Dr. A. D. Driscoll.....	900 00	
" " 22d " Dr. A. T. Chambers...	900 00	
" " 23d " Dr. H. Lee Franks.....	900 00	
" " 24th " Dr. L. J. Turlington..	900 00	
Total expenditures		$57,760 56
Surplus of credit		$75 44
Balance to surplus, 1903		75 44
Original appropriation, expenses		$13,504 00
Transferred from Contingent Fund		8,488 91
Total credit		$21,992 91

EXPENDITURES

Antitoxin	$2,559 80	
Fumigation	587 00	
Car fare	750 00	
Advertising	63 79	
Subscriptions to journals, etc	45 30	
Coffins for pauper dead	164 10	
Miscellaneous expenditures	1,204 55	
Rent 315 North street, Detention house	360 00	
Publishing annual report	2,224 55	
Ice and incidentals for Morgue	514 78	
Laboratory supplies	763 61	
Disinfectants	841 84	
Vaccine virus	1,000 00	
Digging graves	20 00	
Postage	1,115 63	
Livery and hiring	2,105 56	
Care of city patients	37 52	
Care of small-pox patients and suspects	7,634 88	
Total expenditures		$21,992 91

QUARANTINE.

Original appropriation, salaries $11,105 00

EXPENDITURES.

Salaries to December 1, 1903:		
Ass't Com. of Health, Dr. Sydney O. Heiskell...	$3,000 00	
Assistant Resident Physician, Dr. T. W. Clarke..	1,825 00	
Captain, tugboat Hygeia, James C. Evans.....	780 00	
Engineer, John Crawford.....	720 00	
" John Kellner.....	600 00	
Mate, Hygeia, 7 months, Charles C. Chambers..	350 00	
" " 5 " W. T. Green.....	250 00	
Fireman, " Bernard McMahon.....	600 00	
" " Thomas Gilden.....	600 00	
Messenger, George M. Streeper.....	600 00	
Gardener, John L. Matthu.....	600 00	
Nurse and porter, 4 mos. 12 days, F. Hammill...	219 35	
" " " 2 " 19 " Peter Burns...	130 65	
" " " 5 " M. T. Armacost.....	250 00	
Laborer, John Sloan	60 00	
Cook, 2 months, Sarah Allen	40 00	
" 5 " Sarah Smith.....	100 00	
" 5 " Sarah Coulter.....	100 00	
Laundress, Annie Potter.....	180 00	
Extra nurse, Susan Barber.....	30 00	
" " Lucretia Nicholson.....	20 00	
Extra cook, Laura Dobson.....	25 00	
Extra nurse, Philip Forrest.....	21 00	
Total expenditures.....		11,101 000
Surplus of credit.....		$4 00
Balance to surplus, 1903.....		4 00
Original appropriation, expenses.....		$5,850 00
Curtis Bay Ice Co., refund paid in error.....		4 20
Totals credits.....		$5,854 20

EXPENDITURES.

Provisions.....	$1,346 89	
Groceries.....	669 83	
Ice.....	54 07	
Coal for "Hygeia" and household use.....	1,282 31	
New flags.....	20 00	
Subscriptions to newspapers.....	13 00	
Car fare.....	30 00	
Clothing for small-pox patient.....	8 15	
Sundry household bills.....	218 10	
Repairs to and supplies for "Hygeia".....	1,315 64	
Farm implements, fertilizer, seeds, etc.....	144 35	
Fumigation.....	26 25	
Insurance on "Hygeia".....	75 00	
Horse feed.....	296 64	
Drugs.....	58 60	
Repairs to launch.....	71 42	
Gasoline for launch and pumping engine.....	223 95	
Total expenditures.....		$5,854 20

Quarantine Receipts, 1903.

Tonnage Tax.

January	$1,132 50	
February	980 69	
March	1,194 96	
April	1,180 22	
May	1,580 82	
June	1,716 46	
July	1,813 76	
August	1,549 25	
September	1,428 05	
October	1,307 22	
November	1,262 93	
December	993 15	
		$16,140 01

Health Department—Revenue.

Received for birth and death transcripts during year 1903.	$227 00
Balance paid into the city	227 00

BARRACKS AT QUARANTINE A—VI (24).

Original appropriation, transferred from Conting't Fund. $7,195 50

EXPENDITURES.

Advertising for proposals	$ 44 85	
Blue prints	5 72	
Insley & Redden, contractors, on acct. contract.	5,000 00	
Total expenditures		5,050 57
Surplus of credit		$2,144 93
Balance carried forward to 1904		2,144 93

R. J. Biggs & Co.

Amount paid for wood lost from boat while quarantined for small-pox	$85 62

REPORT OF INSPECTIONS OF NUISANCES MADE AND ORDERED ABATED BY SANITARY INSPECTORS.

Number of Alleys to be cleaned	436
" " " repaired	635
" " " paved	83
" Premises to be cleaned	229
" Vacant lots to be drained, filled and cleaned	130
" Manure pits to be constructed	54
" " " reconstructed and repaired	47
" " " cleaned	70
" Drain-pipes to be reconstructed and repaired	171
" " " cleaned	22
" " " laid	1
" Defective plumbing ordered reconstructed and repaired	99
" Yards to be cleaned	1,351
" " " drained	71
" " " repaired	144
" " " paved	795
" Privies inspected and ordered cleaned	26,550
" " to be reconstructed	262
" " " ventilated	33
" Water-closets to be repaired and ventilated	87
" Excavating apparatuses inspected	2
" Cellars to be drained and filled	553
" " " cleaned	472
" Slaughter-houses inspected	1
" Stables to be reconstructed and cleaned	56
" Water-pipes and hydrants to be repaired	285
" Gutters to be repaired	191
" Rain spouts to be reconstructed	53
" Grass and weeds to be removed from gutters	295
" Ice-ponds examined and permits granted	3
" Tenements ordered cleaned and whitewashed	10
" Samples of water collected for analysis	44
" Sweat-shops examined	5
" Complaints examined and no nuisance found to exist	253
" Miscellaneous and extra examinations made	28,884
" Bacteriological cultures made	130
" Schools examined	75
" Legals proceedings instituted for non-compliance with notices	77

CONTAGIOUS DISEASES INSPECTED.

Number of Cases of		Diphtheria	1,096
"	"	Scarlatina	1,082
"	"	Membranous croup	77
"	"	Whooping cough	183
"	"	Mumps	218
"	"	Chicken-pox	326
"	"	Tyhoid fever	615
"	"	Small-pox	5
"	"	Measles	2,132
"	"	Tuberculosis	4
"	"	Vaccinations	11,566
"	"	Visits to vaccinate	5,495
"	"	Examinations of vaccination	14,836
"	"	School certificates issued	7,883
"	"	Police station calls	287
"	"	Units of diphtheria antitoxin injected	250,000

REPORT

—OF THE—

Bacteriological Laboratory.

REPORT.

BALTIMORE, January 1, 1904.

DR. JAMES BOSLEY,

Commissioner of Health.

DEAR SIR: I hereby respectfully submit my report of the work performed in the Bacteriological Laboratory of the Sub-Department of Health for the year ending December 31, 1903.

BACTERIOLOGICAL EXAMINATION OF THE WATER SUPPLY.

The city water has been repeatedly examined, together with a number of wells and springs. These tests consist in the numerical estimation of the bacteria present in one cubic centimeter of water, and the tests for the presence of the colon bacillus or intestinal germ. Table No. 1, which follows, will show the work in detail.

USE OF ANTITOXIN IN THE TREATMENT OF DIPHTHERIA.

During the past year the Department has furnished antitoxin for the treatment of diphtheria in 550 cases. There were fifty-three deaths, making a fatality of 9.6 per cent. This is a slight decrease over last year, when the fatality was 10.7 per cent. The Department uses 2,000 units, repeated every six hours, until improvement takes place. In severe cases an initial dose of 3,000 units is often used. In 237 cases the diphtheria bacillus was found, and the number of deaths was 24, or a fatality of 10.1 per cent. This is a very good record in verified cases, and it is unfortunate that many physicians will use Department antitoxin and will not send in cultures. The outfits are always sent with the antitoxin, and should always be returned in order to arrive at correct conclusions.

Many physicians will not do this, and we cannot refuse to issue the antitoxin, since it might decrease the chances of the patient's recovery.

The fatality in laryngeal diphtheria was 24 per cent., and before the use of antitoxin these cases were almost always fatal. The fatality in nasal diphtheria from fifty-three cases was 18 per cent.

Striking results have been accomplished in preventing the spread of diphtheria. Two hundred and thirty-seven children exposed to diphtheria in infected houses were immunized by the use of 1,000 units of antitoxin, and not a child developed diphtheria. If these children had not been protected with antitoxin many of them would have developed the disease.

REPORT OF THE THROAT INSPECTOR.

The report of the Throat Inspector shows that the work in this Department has increased, and it also contains some interesting statistics concerning the reinfection of houses with diphtheria and scarlet fever. It shows a very small percentage of reinfections after disinfection, and emphasizes the importance of disinfection of houses and inspection of the throats in infected houses. You are respectfully referred to this interesting report for the further details.

RECOMMENDATIONS.

First. In order to make the work of the laboratory more effective I would respectfully request that the circulars of information prepared last year be sent to all physicians in the city.

Second. That the division be furnished with a new cabinet for preserving the records.

Respectfully submitted,

Wm. Royal Stokes, M.D.,
Bacteriologist.

TABLE No. 1.

Tap, Stream or Well.	Date.	Colonies Per c.c.		Colon Bacillus.	Condition.
		Aerobic.	Anaerobic		
217 Mt. Royal avenue, tap	Jan. 23	40	11	Negative in 1 and 50 c.c.	Good
231 Hickory avenue, tap	Feb. 14	10	0	Negative in 1 and 50 c.c.	Good
Well, Captain Shirley	Mch. 6	6000	300	Present in 1 and 50 c.c.	Bad
Tap, Mrs. M. A. Bond, 234 Union avenue	Mch. 17	200	10	Present in 50 c c.	Bad
Spring, Dr. C. Hampson Jones	Mch. 18	30	2	Negative B enteritidis in 50 c.c.	Good
Ice, Dr. C. Hampson Jones	April 1	25	0	Negative in 1 and 50 c.c	Good
Well, Bradford avenue and Liberty road	April 6	2500	300	Present in 1 and 50 c.c.	Bad
Specimen, Dr. C. Hampson Jones	May 26			Negative B enteritidis in 1 c.c.	Good
Tap, 112 Montford avenue	May 19	360	212	Negative in 1 and 50 c c.	Good
2500 W. North avenue, well	May 20	672	0	Present in 50 c.c.	Bad
Specimen, Dr. C. Hampson Jones	May 26			Present in 1 c.c.	Bad
Tap, Martenet, Ridgewood and Granada avenue, West Arlington	June 6	1000	2400	Present in 1 and 50 c.c.	Bad
Laboratory tap	June 9	2820	40	Negative in 1 and 50 c.c.	Fair
Laboratory filter	June 9	240	12	Negative in 1 and 50 c.c.	Good
Spring, Harlem avenue extended	June 10	230	15	Negative in 1 and 50 c.c.	Good
Well, 401 Falls road	June 18	3000	600	Present in 1 and 50 c.c.	Bad
Tap, S. A. Weaver, 2105 Federal street	June 24	25	6	Negative in 1 and 50 c.c.	Good
House of Refuge	July 6			Present in 50 c.c.	Bad
Milk, Wise Bros., Factory, 132 W. Fayette st.	July 20	4560000	240	Present in $\frac{1}{1000}$ c.c.	Bad
City water, Wise Bros., Factory	July 20	406	6	Negative in 1 and 50 c.c.	Good
Ice, Wise Bros., Factory	July 20	1800	480	Negative in 1 and 50 c.c.	Fair
Ice, from farm	July 21	6000	840	Present in 1 and 50 c.c.	Bad
Water from well on farm	July 21	5000	600	Present in 1 and 50 c.c.	Bad

TABLE No. 1—Continued.

Tap, Stream or Well.	Date.	Colonies Per c. c.		Colon Bacillus.	Condition.
		Aerobic.	Anaerobic		
Kitchen spigot, 1625 Edmondson avenue....	July 21	252	60	Negative in 1 and 50 c.c.	Good
Bath room spigot, 1625 Edmondson avenue..	July 21	90	10	Negative in 1 and 50 c.c.	Good
Laboratory tap	July 22	240	148	Negative in 1 and 50 c.c.	Good
Laboratory filter, new cylinder for three weeks	July 22	1500	2	Negative in 1 and 50 c.c.	Fair, but great increase over city water.
Tap, 413 New street	July 22	Liquefied	130	Negative in 1 and 50 c.c.	Good
Well, 226 Old York road	July 22	420	10	Present in 1 and 50 c.c.	Bad
Mr. Staum, artesian well	Aug. 12			Negative in 1 and 50 c.c.	Good
Water, Hyde	Sept. 26			Notpresent in 1 and50c.c.	Good
Water, Browning	Sept. 26			Negative in 1 and 50c.c.	Good
Well, W. S. Whitely, Gilmore lane, near York road	Oct. 20	2500	500	Present in 1 and 50 c.c.	Bad
Well, Mrs. Shipley, Park Heights and First avenue	Oct. 20	2500	500	Present in 1 and 50 c.c.	Bad
City water, Harlan	Oct. 27	120	5	Negative in 1 and 50 c.c.	Good
Tap, Hotel Sherwood, 212 East Monument street	Oct. 27	360	72	Present in 50 c.c.	Bad
Hotel Preston, Guilford avenue and Preston streets	Oct. 27	10	3	Present in 50 c.c.	Bad
Tap, Mrs. R. C. Wilson, 1023 N. Calvert st...	Oct. 27	1200	60	Negative in 1 and 50 c.c.	Fair
Tap, Mrs. Dora Baer, 1041 Guilford avenue.	Oct. 27	1050	120	Notpresent in 1 and50c.c.	Fair
Tap, W. T. Dixon, 1224 Madison avenue	Nov. 23	2400	132	Negative in 1 and 50c.c.	Fair

TABLE No. 1*a*—MILK.

Bacteriological Examination of Milk.

Tap, Stream or Well.	Date.	Colonies Per c. c.		Colon Bacillus.	Condition.
		Aerobic.	Anaerobic		
Wise Bros.' factory	July 20	4560000	240	Present in $\frac{1}{1000}$ c.c.	Bad
1139 McElderry street	Aug. 14	48000	.....	Present in $\frac{1}{1000}$ c.c.	Bad
1127 Low street	Aug. 17	9600000	.....	Present in $\frac{1}{1000}$ c.c.	Bad
922 Ashland avenue	Aug. 17	4800000	.....	Negative in $\frac{1}{1000}$ c.c.	Fair
Stable of Jacob Brenner	Aug. 17	360000	.....	Present in $\frac{1}{1000}$ c.c.	Bad
From store, 916 East Fayette street	Aug. 17	4680000	.....	Present in $\frac{1}{1000}$ c.c.	Bad
Wagon on Eden street	Aug. 17	3000000	.....	Present in $\frac{1}{1000}$ c.c.	Bad

SUMMARY OF TABLE No. 1.

Table No. 1 shows that seven wells were examined and all were bad. This demonstrates the continued pollution of the drinking wells by the seepage from the cess-pits. The city water was examined as it flows from the laboratory tap and the taps in the various wards in twenty-seven instances, and the colon bacillus, or bacillus coli, a proof of intestinal pollution was found eight times. The average number of ærobic bacteria present in twenty samples of tap water was 649.7, and the average anærobic bacteria was 171.9.

Table No. 1 shows that in seven samples of city milk the colon bacillus was present in six instances in 1.1000 of a cubic centimeter of milk. The average number of bacteria in seven samples was 3,864,000 bacteria per cubic centimeter. This far exceeds Parks' maximum requirement of 1,000,000 bacteria for the general milk supply of any large city.

TABLE No. 2.

Examinations of Specimens to Determine the Presence of Disease.

Diphtheria, positive cultures	683
" negative cultures	1,875
" suspicious cultures	23
" unsatisfactory cultures	24
Diphtheria—Total cultures	2,605
Diphtheria—Positive cultures of school children's throats	
" negative cultures of school children's throats	
" suspicious cultures of school children's throats	
Diphtheria—Total culture of school children's throats	
Diphtheria—Positive cultures examined by Throat Inspector	174
Negative cultures examined by Throat Inspector	3,601
Diphtheria—Total cultures examined by Throat Inspector	3,775
Tuberculosis—Positive results	448
" negative results	808
" suspicious results	3
" unsatisfactory results	2
Tuberculosis—Total results	1,261
Typhoid fever—Positive reactions	434
" negative reactions	708
" suspicious reactions	88
" unsatisfactory reactions	12
Typhoid fever—Total reactions	1,242
Malaria—Positive results	4
" negative results	253
" unsatisfactory results	15
Malaria—Total results	272
Antitoxin—Units, supplied in indigent cases	2,427,000
" cases treated by Health Department	1,270
Vaccine virus—Tubes supplied by Health Department	27,090
Water—Complete examinations made	40
Examinations—Miscellaneous	75
Milk examinations	7

TABLE No. 2A.

SHOWING THE TOTAL NUMBER OF EXAMINATIONS FOR PHYSICIANS DURING THE PAST EIGHT YEARS.

Examinations	for diphtheria	15,686
"	of school children	5,816
"	for tuberculosis	7,526
"	for typhoid fever	5,796
"	of malaria	583
"	of miscellaneous specimens	247
"	made by Throat Inspector	17,993
Total		53,647

TABLE No. 3.

CASES OF DIPHTHERIA TREATED WITH ANTITOXIN FURNISHED BY THE HEALTH DEPARTMENT FROM JANUARY 1, 1903, TO DECEMBER 31, 1903.

Cases.	Deaths.	Mortality.	Extent of Membrane.				Complications.					Cases Immunized.		
			Tonsils.	Tonsils and Pharynx.	Nasal.	Larynx.	Broncho-Pneumonia.	Nephritis.	Sepsis.	Paralysis.	Cardiac Paralysis.	Total.	Successful.	Diphtheria Developed.
550	53	9.6	321	163	53	73	8	15	4	10	8	237	237	0

Cases in which diphtheria bacilli were found..... 237
Deaths resulting..... 24
Percentage of mortality..... 10.1
Deaths from nasal diphtheria..... 10

Percentage..... 18
Cases of laryngeal diphtheria 89
Deaths resulting 22
Percentage of mortality..... 24

Mortality After Use of Antitoxin According to Duration of Disease at Time of Injection.	First day.	Second day.	Third day.	Fourth day.	Fifth day.	Sixth day.	Seventh day	Eighth day.	Tenth day.	2 Weeks.
Cases.....	277	226	107	59	25	9	18	.....	1	3
Deaths.....	11	23	5	6	2	0	3	.....	0	2
Percentage	.3	10.1	4.6	10.3	.8	.....	16.8	.....	.....	.66

Mortality in cases not treated with antitoxin (Welch) ..... 42 1 per cent.
Average mortality in Baltimore for four years (1894, 1895, 1896, 1897) prior to the use of antitoxin 55.18 per cent.

TABLE No. 3a.

CASES OF DIPHTHERIA TREATED WITH ANTITOXIN FURNISHED BY THE HEALTH DEPARTMENT FROM JANUARY 1, 1898, TO DECEMBER 31, 1902.

Cases.	Deaths.	Mortality.	Extent of Membrane.				Complications.					Cases Immunized.		
			Tonsils.	Tonsils and Pharynx.	Nasal.	Larynx.	Broncho-Pneumonia.	Nephritis.	Sepsis.	Paralysis.	Cardiac Paralysis.	Total.	Successful.	Diphtheria Developed.
2196	218	9.9	5028	667	184	347	21	27	25	45	54	1151	1145	6

Cases in which diphtheria bacilli were found..... 1204
Deaths resulting..... 100
Percentage of mortality..... 8.3

Cases of laryngeal diphtheria..... 347
Deaths resulting..... 100
Percentage of mortality..... 28.8

Mortality After Use of Antitoxin According to Duration of Disease at Time of Injection.	First day.	Second day.	Third day.	Fourth day.	Fifth day.	Sixth day.	Seventh day	Eighth day.	Tenth day.	Unknown.
Cases	611	692	354	143	67	19	42	9	11	13
Deaths	30	50	35	22	14	7	10	3	6	3
Percentage	4.9	7.22	9.88	15.3	20.8	36.8	23.7	33.3	54.5	23

Mortality in cases not treated with antitoxin (Welsh)..... 42.1 per cent.
Average mortality in Baltimore for four years (1894, 1895, 1896, 1897) prior to the use of antitoxin 55.18 per cent.

Table No. 3*a* gives the results of antitoxin since 1898, and contains some very encouraging figures. In 2,196 cases considered diphtheria by the physicians only 218 died when treated with antitoxin, giving a fatality of 9.9 per cent. In 1,204 cases the diphtheria bacillus was found, and only 100 died, a fatality of 8.3 per cent. It is unfortunate that in 994 cases no cultures were taken, as the statistics are not as accurate on this account. The comparatively small fatality in laryngeal cases and the increasing death rate as the injection of antitoxin is delayed is also shown in the table.

1,151 children in infected houses were immunized with 1,000 units each of antitoxin, and only six developed diphtheria. Several of these only received 500 units, and this dose is not always protective.

When the above figures are compared with the previous fatality of 55 per cent. in Baltimore before the use of antitoxin, and to Welch's figures of 42.1 per cent. the practical results in the saving of human life are to say the least gratifying. Not only have many lives been saved, but the persistent decrease in the cases of diphtheria treated and reported shows that the spread of the disease has been limited, partially by this work.

Report of the Chemist.

REPORT.

BALTIMORE, January —, 1904.

DR. JAMES BOSLEY, *Commissioner of Health:*

DEAR SIR—I have the honor to submit to you my report upon the Chemical Laboratory of the Health Department for the year ending December 31, 1903.

I.

MILK.

1. *Work Accomplished.*

The total milk examinations for the year 1903, January 1 to December 31, amounted to 39,506 lots, aggregating 2,158,496 gallons (see Table No. 1) as against 1,770,299 gallons for 1902, and 1,520,312 gallons for 1901.

It shows that the two milk inspectors again increased the total amount of milk examinations by nearly 400,000 gallons. The cause for this increase is partly due to efficiency of the inspectors, whom you were good enough to retain in your service, partly to certain changes in the inspection of milk, which I inaugurated early in the year. It takes months before a new man is able to master his duties intelligently, and at the same time quickly, and I am exceedingly grateful to you that you spared me the rather unpleasant task—the time and labor connected with it—of breaking in new and inexperienced men.

As to the changes made in examining milk, I beg to say that formerly, after the examination and lactometer reading of every can of milk at the railroad stations, a blank was filled out showing the number of gallons comprising each lot,

the name of the shipper and where shipped from, the date and railroad station where received, the specific gravity and condition of the milk. All this took time, and provided the inspection proved the milk to be above the standard, pure and rich, the blank, after delivery to the laboratory, was of no further use. It did not convey any information which could be used as a matter of record. Early in January, 1903, the making out of these blanks for milk which had passed satisfactory examination was omitted, and blanks are only filled out in detail when milk has been condemned and spilled, in which case the blanks, together with a sample of the milk to be analyzed, were brought to the laboratory. The inspectors, however, keep a correct account of the total number of lots and gallons examined at the depot or on the street each day, condensed on one daily blank, and delivered to me for record.

The total consumption of milk for the year was about the same as for the previous year (1902). The wholesale price of milk was considerably higher, due to a general scarcity of milk caused by higher prices of feedstuff, and, perhaps, a reduced production. The average price of milk in 5-gallon cans at the railroad stations is from 60 to 80 cents per 5-gallon can, but during 1903 the prices have been considerably higher. During last summer at times milk brought as much as from $1.10 to $1.25 per 5-gallon can at the several depots.

2. *Quality of Milk.*

The total amount condemned and spilled by the inspectors during 1903 amounted to 501 lots, aggregating 2,741 gallons (see Table No. 1), as against 557 lots with 2,944 gallons for the previous year. In my report for the year 1902 I placed the total consumption of milk for Baltimore roughly at 7,500,000 gallons. Based upon a closer investigation during 1903, I find that this figure was rather low, and that the consumption may be safely placed at between 8,000,000 and 9,000,000 gallons. However, considering that in round figures 25 per

cent. of all the milk consumed passed examination, and applying the same ratio upon the remaining 75 per cent. of the milk, we find that only a little over $\frac{1}{10}$ of 1 per cent. was condemned, and that $99\frac{9}{10}$ per cent. constituted good, unadulterated milk.

Fully realizing the vital importance of a pure and unadulterated milk supply and its relation to health, and especially to the mortality of infants, your chemist has entered more fully upon this subject, and begs to present some data which may be of interest.

Independent of the many comparison samples of milk which are subjected to analysis during the year for the purpose of assisting the inspectors in their daily work, the inspectors during the first eight months of 1903 took frequent samples of milk which had passed satisfactory examination at the railroad stations. The samples were carefully analyzed and are tabulated in Table No. 2. The samples represent the six railroads over which milk reaches the city, and were taken at random and indiscriminately. The table will speak for itself as to the quality of the milk. The average of the forty-seven analyses—specific gravity, 1.0305; total solids, 14.298, and fat, 5.203—offers certainly no cause for complaint as to the quality of the milk from the shippers.

In order to find whether the dairymen and milk dealers throughout the city delivered to their customers the same article as received from the several depots, without previous watering or otherwise manipulating, the inspectors during their rounds on the streets brought to the laboratory during the same period of time samples taken from the churns of the dealers. By glancing over the figures tabulated in Table No. 3 we find the results of eighty-three of such analyses with an average of specific gravity, 1.0303; total solids, 13.805, and butter fat, 4.981. Compared with the average of the analyses from the depot samples there is but an insignificant difference in favor of the shippers, which difference would have been more than wiped out if I had left out about

a dozen analyses from Table No. 3, which were very close to, and, in some instances, below, the legal standard. As it stands, the investigation unquestionably proves that the dairymen of the City of Baltimore, with but a few exceptions, deliver to the public the milk precisely as received from the depots, which milk compared with the legal standard—12 per cent. of total solids and 3 per cent. of butter fat—averages in round figures about 20 per cent. more of total solids and 40 per cent. more of butter fat.

The above investigation dealt chiefly with the chemical analysis and the cleanliness of the milk, since a bacteriological analysis was outside of my province. However, the majority of the samples were examined microscopically for pus and as far as practicable for pathogenic germs (tubercle bacillus). In most all of the samples a few pus cells were present, but no tubercle bacillus could be located. The number of bacteria in one cubic centimeter of milk were not counted.

On the other hand, every one of the 130 samples was examined for the presence of preservatives (formaldehyde) and only in eleven of the 130 samples small quantities of formaldehyde was found to be present. No other preservatives could be traced.

Evidently the cause of the great mortality from intestinal diseases especially among infants in certain sections of the city cannot be placed at the doors of the shippers of milk or of the dairymen and responsible milk dealers. To gain further information upon this subject of mortality I was instructed to institute a series of investigations of a different character. This investigation will perhaps throw some light upon the subject, and has opened a new and wide field, while the facts gained are for want of time and the small force at my command, so far rather limited, they are, notwithstanding, quite interesting.

As stated, I received instructions to investigate during the summer of 1903 into the condition of the milk supply of the

Southeastern District of the city, where the mortality among infants, caused from intestinal diseases is abnormally high. These investigations included, if feasible, a canvass of private residences and tenement houses in order to learn something in reference to the quality and quantity of milk used, especially as pertaining to the feeding of infants.

SPECIAL INVESTIGATION SOUTHEAST BALTIMORE.

Tenement house, 800 S. Broadway—Number of children, barefooted, one infant, breast, no milk used, buy condensed milk, no milk in house, no sample; condition filthy.

Private house, 1632 Lancaster street—Three small children, one infant, breast, condensed milk, no sample; condition clean.

Small store, 804 S. Bond street—1 to 2 gallons of milk sold daily, sell mostly condensed milk; condition fair. Sample of milk—Specific gravity, 1.0290 per cent.; total solids, 11.09 per cent.; fat, 3.05 per cent.

Small store, 819 S. Bond street—About 1 gallon of milk sold daily; condition fair. Sample—Specific gravity, 1.0310 per cent.; total solids, 12.33 per cent.; fat, 3.60 per cent.

Small store, 1520 Thames street—1 gallon of milk or less sold daily; condition fair. Sample—Specific gravity, 1.0270 per cent.; total solids, 11.32 per cent.; fat, 3.60 per cent.

Potspring Dairy, 1613 Aliceanna street—Handle from 200 to 300 gallons of milk daily; condition clean. Sample—Specific gravity, 1.0280 per cent.; total solids, 11.64 per cent.; fat, 3.65 per cent.

Small store, 1303 Eastern avenue—Condition clean; small amount of milk sold. Sample—Specific gravity, 1.0290 per cent.; total solids, 12.79 per cent.; fat, 4.40 per cent.

Store, 1923 Eastern avenue—Condition fair; 2 to 3 gallons milk daily. Sample—Specific gravity, 1.0300 per cent.; total solids, 11.61 per cent.; fat, 3.20 per cent.

Great Eastern Dairy, 1836 Eastern avenue—Condition good; about 200 gallons milk daily. Sample—Specific gravity, 1.0300 per cent.; total solids, 11.36 per cent.; fat, 3.00 per cent.

Small store, 506 S Ann street—Condition fair; very little milk handled. Sample—Specific gravity, 1.0310 per cent.; total solids, 11.85 per cent.; fat, 3.20 per cent.

Small store, 1814 Lancaster street—Miserable place; filthy, but little milk handled. Sample—Specific gravity, 1.0200 per cent.; total solids, 6.66 per cent.; fat, 1.20 per cent.

Andryszk Dairy, 709 S. Ann street—Condition good; about 75 gallons of milk sold. Sample—Specific gravity, 1.0285 per cent.; total solids, 13.26 per cent.; fat, 5.05 per cent.

Makowiecky Dairy, 715 S. Regester street—Condition fair; 10 gallons milk daily. Sample—Specific gravity, 1.0250 per cent.; total solids, 10.58 per cent.; fat, 3.40 per cent.

Store, 204 S. Bond street—Conditions good; 1 gallon or less daily. Sample—Specific gravity, 1.0310 per cent.; total solids, 10.85 per cent.; fat, 2.20 per cent.

Store, 1414 Gough street—Condition fair; 1 to 1½ gallons daily. Sample—Specific gravity, 1.0280 per cent.; total solids, 10.62 per cent.; fat, 2.80 per cent.

Small store, southwest corner Gough and Spring streets—Condition filthy; small amount of milk sold; no sample.

Kaplan Dairy, 306 S. Eden street—Condition good; about 50 gallons milk handled daily. Sample—Specific gravity, 1.0310 per cent.; total solids, 10.53 per cent.; fat, 2.10 per cent.

Flax Dairy—211 S. Eden street—Condition fair; 10 gallons milk daily. Sample—Specific gravity, 1.0290 per cent.; total solids, 12.31 per cent.; fat, 4.00 per cent.

Milk Depot, 1404 E. Lombard street—Condition fair; 150 to 200 gallons handled daily. Sample—Specific gravity, 1.0270 per cent.; total solids, 10.61 per cent.; fat, 3.05 per cent.

Store, 2029 Canton avenue—Condition fair; 1 to 2 gallons daily. Sample—Specific gravity, 1.0280 per cent.; total solids, 12.06 per cent.; fat, 4.00 per cent.

Store, 2118 Canton avenue—Condition tolerable; 1 to 2 gallons daily. Sample—Specific gravity, 1.0290 per cent.; total solids, 12.16 per cent.; fat, 3.40 per cent.

Store, 2116 Canton avenue—Condition fair; about 2 gallons daily. Sample—Specific gravity, 1.0285 per cent.; total solids, 12.45 per cent.; fat, 4.20 per cent.

Store, 2110 Eastern avenue—Condition fair; 1½ gallons daily. Sample—Specific gravity, 1.0255 per cent.; total solids, 11.95 per cent.; fat, 3.60 per cent.

Store—410 S. High street—Condition filthy; 2 gallons daily. Sample—Specific gravity, 1.0250 per cent.; total solids, 11.10 per cent.; fat, 3.00 per cent.

Store, 456 S. Ann street—Condition good; 2 gallons milk daily. Sample—Specific gravity, 1.0310 per cent.; total solids, 12.80 per cent.; fat, 3.40 per cent.

Dairy, Shell road, Louis Plie—Condition good; 40 gallons daily. Sample—Specific gravity, 1.0295 per cent.; total solids, 12.92 per cent.; fat, 3.40 per cent.

Mehring Dairy, 15 Henderson street—Condition good; 20 gallons daily. Sample—Specific gravity, 1.0275 per cent.; total solids, 13.65 per cent.; fat, 4.60 per cent.

Store, 2000 Bank street—Condition fair; 6 gallons daily. Sample—Specific gravity, 1.0285 per cent.; total solids, 12.56 per cent.; fat, 3.80 per cent.

Dairy, 1720 E. Lombard street—Condition good; handle 50 gallons daily. Sample—Specific gravity, 1.0300 per cent.; total solids, 12.85 per cent.; fat, 4.20 per cent.

Store, 1302 Gough street—Condition fair; small amount. Sample—Specific gravity, 1.0295; total solids, 12.57 per cent.; fat, 3.80 per cent.

Private house, 216 S. Ann street—Condition fairly clean; infant, breast, no milk.

Private house, 422 S. Ann street—Condition filthy; no cellar; garbage; no information.

We will close the list here, though there has been some more work done, but the foregoing will fully illustrate existing conditions. We find that with but few exceptions, the sanitary conditions were fair and in most cases ice-boxes or refrigerators were kept for the storage of the milk in the stores and dairies. The quality of the milk, however, was very unsatisfactory and often below the legal standard. In almost every instance the hydrant had been called into service to stretch the quantity; from ten per cent. to fifty per cent. of water being added to make the business more profitable for the storekeeper. To what degree the addition of this water is responsible for the pollution of the milk is a matter of serious consideration. The stores and dairies handling larger quantities of milk, say over five gallons daily, generally purchase their supply at the several depots direct from the shippers; the smaller places get their daily supply, five gallons or less, from the milk wagons. Whether the milk sold in these stores is intended for the nourishment of infants is a matter of indifference to them. Whenever during this special investigation a regular milk wagon was noticed in the street, the driver was stopped and the milk examined by the inspector, but in not a single instance did the inspection prove unsatisfactory.

The investigation respecting the milk supply in private houses and tenements has been rather unsuccessful and disappointing; the mothers or other members of the family where we found small infants were not willing to volunteer any information, treated the inspector with suspicion and often refused to answer questions at all. They would not listen to polite explanation by the inspector, and told him that it was none of his business where they bought the milk; whether they nursed their baby themselves or fed it on store milk.

Frequently the inspector was informed that they did not buy any milk at all, but used condensed milk for the baby as

well as for themselves. This suggested the idea of investigating the condensed milk question, and we found that all the stores throughout the Southeastern District sold large quantities of condensed milk. The brand mostly sold is the Magnolia brand, which is the cheapest article in that line. Upon personal inquiry your chemist was informed that one single large grocery sold from thirty to forty dozen cans of Magnolia brand condensed milk daily, and I purchased a can for nine cents. We found the retail price is either eight, nine or ten cents per can; at one store two cans for fifteen cents.

ANALYSIS OF MAGNOLIA CONDENSED MILK. CAN PURCHASED IN JUNE, 1903, AT A SOUTH BROADWAY STORE FOR NINE CENTS.

June, 1903—water	30.75	per cent.
Total solids	69.25	"
	100.00	"
Specific gravity	1.27	
Butter fat	10.16	"
Proteids	6.92	"
Milk sugar	9.85	"
Cane sugar	40.90	"
Total sugar	50.75	"
Ash	1.71	"

Bacteriological Examination:

One cubic centimeter of condensed milk introduced into 500 cubic centimeters of sterile water and one cubic centimeter taken for plate cultures. Result: 1,087,000 colonies per one cubic centimeter of condensed milk. The pus bacillus was isolated from the plate cultures.

ANALYSIS OF MAGNOLIA BRAND CONDENSED MILK. CAN PURCHASED ON 3 CAROLINE STREET FOR 8 CENTS, NOVEMBER, 1903.

Water	26.80	per cent.
Total solids	73.20	"
	100.00	"
Specific gravity	1.32	"
Butter fat	9.88	"
Proteids	7.66	"
Milk sugar	10.45	"
Cane sugar	42.62	"
Total sugar	53.07	"
Ash	1.42	"

No bacteriological examination made.

ANALYSIS OF MAGNOLIA BRAND CONDENSED MILK. CAN BOUGHT ON NORTH GAY STREET FOR 10 CENTS, DECEMBER, 1903.

Water	24.81	per cent.
Total solids	75.19	"
	100.00	"
Specific gravity	1.32	"
Butter fat	8.10	"
Proteids	7.82	"
Milk sugar	12.90	"
Cane sugar	42.10	"
Total sugar	55.00	"
Ash	1.53	"

Bacteriological examination as above: 1 cubic centimeter of milk contained 252,000 bacteria.

Whilst it may be difficult to get any accurate data as to the actual consumption of condensed milk in Baltimore, yet based upon inquiries in that direction, we can put the yearly consumption at:

Magnolia brand,	40,000	cases,	4	dozen each.
Eagle brand,	6,300	"	4	"
Other brands,	6,000	"	4	"

The Magnolia brand is by far the cheapest article, and is used almost exclusively by the poorer classes. The above 40,000 cases with four dozen cans each, amount to 1,920,000 cans, which, taking it that three to four parts of water are mixed with the condensed milk, making about one-half gallon of fluid, would amount to 960,000 gallons for the year. The conditions pertaining to the preparation of this diluted condensed milk, the purity of the water added, the cleanliness of the vessels used, the place where it is kept, the protection from souring or contamination, are all questions of grave importance when we know that the bulk of the 960,000 gallons constitutes food for infants.

During the coming year this subject will be taken up again, and other brands of condensed milk will be analyzed.

3. *Impure and Adulterated Milk.*

Only 2,741 gallons of milk were condemned and spilled during 1903 (see Table No. 1), showing that the milk supply of Baltimore is at present in a very satisfactory condition. Absolute cleanliness of cans and vessels in which milk was received at the several depots and of the churns and measures of the milk wagons was strictly enforced. Preservatives and artificial coloring of milk were closely looked after, but very little trouble was experienced in that direction. As far as preservatives are concerned, especially during the summer months, formaldehyde is still used to a considerable extent. It is unquestionably the most efficient and at the same time the least harmful of all preservatives, because a very slight amount will be sufficient to keep milk sweet for several days. Since the presence of formaldehyde in small amounts can only be detected by chemical tests, which cannot well be performed by the inspectors, the Assistant Chemist at intervals accompanied the inspectors with the necessary apparatus to test the milk for formaldehyde at the several depots immediately upon arrival. By this means the habit of the shippers of adding this preservative to the milk has been pretty well broken up. During the next hot season these examinations will be extended to the wagons on the streets, when we will be able to stop the practice altogether.

The artificial coloring of milk with azodyes is almost a thing of the past, only two or three cases coming under our observation. In order to further guard against the introduction of disease germs into our milk supply, considerable work was done in another direction. The inspectors, whenever feasible, visited the dairy farms in the Annex and within the city limits, looking into the sanitary conditions of the place not only, but especially tracing the source of the water used for washing the milk cans, and, perhaps, in some instances for adulterating the milk. A sample of this water (spring, pump or well) was brought to the laboratory and subjected

to analysis. When found polluted the discontinuance of the use of such polluted water was strictly enforced.

At your request, the approximate amount of milk received at the six railroad stations daily, indicating the places of the respective shipments, have been tabulated (see Table No. 4).

II.

Water.

1. *City Water Supply.*

As in my report for the year 1902, I can only say that Table No. 5 fully illustrates the condition of our water supply. The samples were taken from taps, not only at the laboratory, but all over the city. With only one or two exceptions, nitrites were found to be present in all samples analyzed, showing active decomposition of organic matter, indicating intestinal pollution.

2. *Pumps, Springs and Wells.*

Table 6 enumerates the analysis of water from pumps, wells and springs examined.

Since most of the pumps and wells, especially in the Annex, have been dealt with in previous years and closed when polluted, there was but little work left for 1903.

III.

Miscellaneous Work.

Among the large number of investigations of a micellaneous character were samples of sausage, meats, fish, flour, butter, oleomargarine, cakes, candies and various articles of food, disinfectants, paints, oils, rubber, etc.

In reference to sausage, I can only repeat what I stated in my last report (1902) that due to the untiring efforts of Mr. Charles Knell, colored sausage is a rare thing to be met at our markets or in our stores.

The whole number of analysis made at the chemical laboratory of the Health Department include:

Milk	415
Water—City water supply, pumps, wells and springs	143
Water—Cellars, ponds, cesspools	192
Sausage and meat	175
Coal	326
Miscellaneous	501
	1752

I am indebted to my assistant, Mr. John Johns, and to the inspectors, Messrs. Roth, Wilson and Knell, for their valuable assistance and the harmony in the performance of our duties.

Thanking you for your courteous treatment and kind feelings towards me, I remain,

Yours very respectfully,

G. W. LEHMANN,
Chemist Health Department.

TABLES.

TABLE No. 1.

TOTAL AMOUNT OF MILK EXAMINED AND SPILLED.

1903.	Examined.		Spilled.	
	Lots.	Gallons.	Lots.	Gallons
January	3,057	172,910	54	262
February	3,104	151,691	26	129
March	3,464	188,912	77	385
April	3,191	177,945	28	160
May	3,037	168,263	58	322
June	3,390	186,598	60	341
July	3,715	201,881	86	440
August	3,144	180,164	16	124
September	3,379	186,395	37	185
October	3,766	204,861	25	175
November	3,118	173,498	14	67
December	3,141	165,378	20	151
	39,506	2,158,496	501	2,741

TABLE No. 2.

COMPARISON ANALYSES OF MILK FROM SHIPPERS TO RAILROAD STATIONS.

1903.		Specific Gravity	Solids.	Fat.
January 12	Fulton Station—Ezra C. Brown, Westminster	1.0305	15.35	6.22
" 15	North Avenue Station—D. P. Hollingsworth, Falston Creamery	1.0320	14.02	4.80
" 15	North Avenue Station—D. P. Hollingsworth, Falston Creamery	1.0325	14.06	4.85
" 28	Calvert Station—L. M. Keizer, Ashland	1.0322	14.62	5.40
" 29	Hillen Station—C. J. Hilbert, New Windsor	1.0300	15.44	6.40
February 2	Fulton Station—R. Reuben Saylor, Union Bridge	1.0330	16.49	6.55
" 3	North Avenue Station—H. N. Baldwin, Baldwin Station	1.0320	16.42	6.80
" 4	Calvert Station—E. Hambleton, Lutherville	1.0320	14.32	5 05
" 5	Hillen Station—O. Hull, New Windsor	1.0315	13.65	4.60
" 6	Woodberry Station—C. Irvin, Graystone	1.0308	14.25	5.24
" 7	President Street Station—J Mitchell Perryman's	1.0323	15.65	6.05
" 14	President Street Station—J. Mitchell, Perryman's	1.0290	15.10	5.60
" 18	Hillen Station—Hanover Produce Co., Culverton	1.0320	13.34	4.20
" 18	Hillen Station—Hanover Produce Co., Spurrier	1.0335	16.01	6.15
" 18	Fulton Station—Hanover Produce Co., Sinsheim	1.0300	12.84	4 24
" 26	Hillen Station Hanover Produce Co., Spurrier	1.0330	15.08	4.85
March 4	Calvert Station—F. R. Royston, Phœnix	1.0322	14.81	5.46
" 12	Hillen Station—L. B. Rohrbaugh, Glenville	1.0322	15.23	5.55
" 17	North Avenue Station—G. Seiler, Hyde Station	1.0300	14.84	5.45
" 20	Woodberry Station—G. Blakley, Graystone	1.0300	14.03	5.20
April 2	Hillen Station—Nathaniel Bay, Finksburg	1.0285	13.86	5.50
" 13	Camden Station—Highland Farm Dairy, Carrollton	1.0280	12.36	4.25
" 15	Calvert Station—N. H. Ensor, Glencoe	1.0310	15 81	6 50
" 21	North Avenue Station—Thomas Peirce, Long Green	1.0310	14.60	5.55
" 30	Hillen Station—E. E Stoner, Spring Mills	1.0320	13.78	4.60
May 18	Hillen Station—Wm. Epphart, Union Bridge	1.0290	13.31	4.95

TABLE No. 2—Concluded.

1903.		Specific Gravity.	Solids.	Fat.
May 20	Hillen Station—V. T. Caples, Glyndon	1.0270	14.10	6.05
June 11	Calvert Station—Walker Perdue, Monkton	1.0280	13.05	4.20
" 15	Hillen Station—Jos. J. Price, Westminster	1.0285	11.83	4.10
" 18	Hillen Station—E. D. Buckley, Green Ridge	1.0290	14.25	4 00
July 8	Calvert Station—Average sample from car	1.0295	14.44	4.10
" 9	Hillen Station—D. S. Danner, Porters	1.0290	13.95	3.95
" 9	Hillen Station—C. Clenson, Union Bridge	1.0285	14 00	5.40
" 13	Fulton Station—Average refrigerator car	1.0300	14.20	5.35
" 11	President Street Station—Perryman's, average	1.0300	14.62	5.80
" 14	North Avenue Station—Average sample, 20 cans	1.0305	15.92	5.95
August 13	Calvert Station—J. G. Lyttle, White Hall	1.0304	13.74	4.90
" 13	Calvert Station—J. E. Almont, White Hall	1.0295	13.70	5.05
" 13	Hillen Station—Thomas G. Boram	1.0290	13.75	5.20
" 25	North Avenue Station—Homewood Station, T. Price	1.0300	13.76	5.00
September 8	Camden Station—Sykesville, D. Shippley	1.0298	13.66	4.95
" 9	By electric cars from Ellicott City to Melrose Dairy	1.0305	14.00	5.10
" 9	" " " Bernheimer	1.0300	13.64	4.90
" 9	" " " Olive Dairy	1.0305	13.93	5.05
" 15	Hillen Station—Glenville, C. T. Myers	1.0308	13.72	4.80
" 22	Fulton Station—Medford, W. M. Englar	1.0300	14.30	5.45
" 28	President Street Station—Magnolia, Miss S. Sully	1.9305	14.18	5.25
	Averages—47 analyses	1.0305	14.298	5.203

TABLE No. 3.

COMPARISON ANALYSES OF MILK FROM MILK-WAGON AND DAIRIES.

1903.		Specific Gravity	Solids.	Fat.
January 12	Wagon—James R. Malone, 2671 Pennsylvania avenue	1.0304	14.89	5.86
" 20	" Magnolia Farm Dairy, Sheehan	1 0322	14.79	5.40
" 28	" Jersey Dairy Farm, Gallager	1.0300	15.45	6.50
" 29	" Gray Stone Dairy, A. G. Jones	1.0305	16.92	6.80
February 2	" J. W. Hartzell, 2025 Druid Hill avenue	1.0320	17.62	7.80
" 3	" Holmes & Waddington, 1422 Druid Hill avenue	1.0300	16.88	7.60
" 4	" John G. Zink, 1729 Light street	1.0325	12 71	3.60
" 5	" Wilson Farm Dairy, E. E Hoey	1.0305	12.94	4.20
" 6	" G. N. Wilson, Woodberry avenue	1.0320	15.18	4.10
" 6	Store—G C. Lantz, 845 Bank street	1.0305	12.52	3.86
" 10	Wagon—New Freedom Farm Dairy, H. E. Smith	1.0320	14.14	5.05
" 16	" James R Malone, 2671 Pennsylvania avenue	1.0333	15.06	5 40
" 17	" No 5, Pikesville Dairy	1.0320	15.22	5.80
" 18	" Jersey Dairy, John N. Stewart	1.0330	14.57	5.05
" 20	" Perryman's, J H Lovett	1.0312	13.88	4 85
" 25	" Rosewood Farm Dairy, M Rosenberg	1.0328	12.78	3.60
" 25	" Bell Farm Dairy, H. A. Albaugh	1.0344	14 44	4.65
March 4	Dairy—Gardner's, Robert street and Druid Hill avenue	1.0305	14 96	5.93
" 4	Store—Mrs. Draehler, Preston street and Homewood avenue	1.0320	13.43	4.20
" 4	" S. Kropman, 127 N. Exeter street	1.0325	15.88	6.25
" 5	Wagon—No. 5, Gardner's New Dairy	1.0320	12.34	4 00
" 9	" Rock Farm Dairy, G. F. Kraemer	1.0310	14 06	5.04
" 10	" Windsor Heights Farm Dairy, Frank B. Dorsey	1.0290	14.02	5.40
" 11	" Standard Dairy, Kaplan	1 0320	15.22	5.80
" 12	Dairy Lunch—Johnnie Hopwood, Baltimore street	1.0335	15.09	5.60
" 12	" " Johnnie Hopwood, Camden street	1.0300	14.06	5.20
" 16	Wagon—Bell Farm Dairy, O. B. Sloffer	1.0320	14.91	5.28

TABLE No. 3.—Continued.

COMPARISON ANALYSES OF MILK FROM MILK-WAGON AND DAIRIES.

1903		Specific Gravity	Solids.	Fat.
March 18	Wagon—Brook Farm Dairy Co., H. R. Hardy	10.302	14.05	5.16
" 20	Dairy—Hampton Dairy, H. Williams	1 0300	14.03	5.20
" 20	Wagon—New Windsor Farm Dairy, Fred. B Buck	1.0306	12.83	4.10
" 24	" Alburton Farm Dairy, F. Hauseman	1.0330	15.71	6.10
April 1	" Lily Farm Dairy, Fred. Brand	1.0300	14.96	5.95
" 1	Store—L. Kropman, 127 N. Exeter street	1.0320	15.66	6.15
" 9	Wagon—Montford Dairy, Wm. Thomas	1.0294	13.03	4.60
" 11	Bottled milk—New Hygeia Dairy, Schier & Bro.	1.0355	15.61	5.50
" 13	Wagon—Milford Dairy Farm, Harwick	1.0265	12.21	4.20
" 14	" Western Maryland Dairy, J. D Baxter	1.0315	16.11	6.57
" 16	" to German Orphan Asylum, Crawther	1.0290	13.32	5.05
" 20	" Harford Dairy, H. E. Woods	1.0295	13 64	5.64
" 22	Store—227 Exeter street, L. Kropman	1.0290	14.70	6.04
" 23	Wagon—Northeastern Dairy, Jas. F. Klima	1.0300	13.51	5.10
" 27	" Bellview Dairy, Geo. E. Johnson	1.0270	13.68	6.95
" 29	" South Baltimore Dairy, George Albaugh	1.0305	13.55	4.80
May 4	" Frederick Farm Dairy, A. Pastorius	1.0290	14.70	6.00
" 6	" Rose Hill Dairy, G. A. Pruett	1.0295	14.36	4.29
" 6	" Crystal Farm Dairy, C. Shipley	1.0310	12.36	3.60
" 11	" Clover Dale Farm Dairy, A. McCann	1.0311	14.16	5.10
" 13	" Cedar Farm Dairy, J. A. Bauer	1.0310	15.45	6.20
" 14	Lunch room—J. Hopwood, Rohrbaugh, Glenville	1.0295	13.87	5 60
" 15	Wagon—Highland Avenue Dairy Farm, C. Winterling	1 0272	13.60	5.90
" 17	" Southeast Baltimore, E. Brauner	1.0285	11.22	3.20
" 22	" Willow Farm Dairy, J. N. Wright	1.0282	13.15	4.90
" 25	" Hunter Farm Dairy, S. S. Arnold	1.0295	12.31	4.00
" 29	" J. N. Hoey, South Regester street	1.0270	12.16	4.15

May 29	Wagon—Henry Becker, Canton	1.0295	13.55	4.10
" 29	" J. Martin, Canton	1.0285	12.44	4.45
" 29	" New Hygeia Dairy, Schier & Bro.	1.0320	13.72	4.55
June 2	" Montebello Dairy, A. G. Wolf.	1.0295	15.35	5.60
" 5	Lunch room—9 South Eutaw street, J. F. Klitch	1.0300	11.83	3.60
" 9	Wagon—M. S. Ochs, North Gay street	1 0290	12.25	3.95
" 12	" Gold Wreath Dairy, Ed. A. Glaser.	1.0294	12.80	4.60
" 16	" Lauraville, Baltimore county, J. M Erdman.	1.0305	13.94	5.05
" 19	" 2514 Mosher street, Charles Cook	1.0295	13.75	5.10
" 19	" Walbrook Dairy, 1215 Lexington street.	1.0295	12.67	4.20
" 19	" White Oak Dairy, J. C. Letzau	1.0305	12.98	4.25
" 22	" Shiloh Farm Dairy, N. Long.	1.0280	12.54	4.40
July 1	" Brightside Farm Dairy, 1816 Barclay street	1.0320	13.18	4.25
" 7	" Montebello Dairy, Wm. Wolf	1.0300	12.95	4.60
" 21	Melrose Dairy, 2022 East Baltimore street.	1.0280	13.32	5.05
" 21	Melrose Dairy, from wagon.	1.0280	12.54	4.40
" 23	Wagon—J. H. Miller, Baltimore county	1.0285	11.83	4.10
" 23	" Annapolis road, John Kess	1.0279	12.19	4.20
" 24	" Willow Spring Dairy, S. P. Needles	1.0290	11.29	3.15
" 30	" M. Romboro, Bank street extended	1.0300	12 62	4.05
" 31	" Spring Lake Farm Dairy, E. H. Pletzer	1.0305	15 09	6.00
August 6	German Orphan Asylum	1.0265	10.72	3.20
" 7	Wagon—Riverside Farm Dairy, Edw. A. Grill.	1.0295	12.31	4.10
" 13	" Fair View Farm Dairy, George Bartholome.	1.0292	14.04	5.40
" 14	" Fred. Gerkins' Dairy, Garrison lane	1.0300	13.04	4.40
" 14	" Fred. Scheneigert, 196 Jefferson street.	1.0295	13.28	4.70
" 15	" Fulton Dairy, Robert Clark.	1.0295	13 09	4.55
" 23	" Owings Mills Farm Dairy, J. H. Disney	1.0295	13.75	5.10
" 29	" Mount Vernon Dairy, D. W. E. Bramble.	1.0310	14.83	4.85
	Averages: 83 analyses.	1.0303	13.805	4.981

TABLE No. 4.

Approximate Amounts of Milk from Shippers to Railroad Stations.

Stations.	Gallons.	
Calvert Station—		
Gladfelter	400	
Smyser	640	
Hanover Junction	180	
Larue	55	
Glenrock	320	
Shrewsbury	265	
New Freedom	285	
Freeland	105	
Bentley	200	
Walker's	530	
Parkton	440	
Graystone	485	
White Hall	650	
Bluemount	70	
Monkton	950	
Corbett	140	
Glencoe	765	
Sparks	290	
Phœnix	260	
Ashland	30	
Cockeysville	275	
Texas	20	
Timonium	95	
Sherwood	45	
Lake Station	55	
		7550
Hillen Station—		
Shippensburg (Pa.) Creamery	1000	
York Road and Culbertson Creameries	1000	
Porter's	50	
Carrollton	50	
Green Ridge	40	
Western Maryland Station	40	
Hoffman	90	
Miller	50	
Glenville	180	
Finksburg	140	
Lineboro	295	
Gwynnbrook	325	

Hillen Station—Continued. Stations.	Gallons.	
Westminster	70	
Linwood	110	
Avondale	75	
New Windsor	135	
Mt. Wilson	40	
Owings' Mills	120	
		3810
Fulton Station—		
York Road, Sinsheim, Glenville and Lineboro Creameries	1000	
Union Bridge	105	
Linwood	370	
New Windsor	445	
Pipe Creek	190	
Wakefield	375	
Medford	405	
Avondale	190	
Spring Mills	250	
Westminster	415	
Carrollton	345	
Patapsco	285	
Finksburg	235	
Glen Falls	95	
Glyndon	235	
Timber Grove	220	
Gwynnbrook	160	
Owings' Mills	265	
McDonogh	50	
Mt. Wilson	80	
Pikesville	50	
		5765
Camden Station—		
Monrovia	375	
Plane No. 4	210	
Mt. Airy	350	
Watersville	70	
Morgan's	40	
Hood's Mills	90	
Sykesville	210	
Henryton	100	
Frederick Junction	40	
Marriottsville	65	
Woodstock	130	
		1680

Stations.	Gallons.	
North Avenue Station (Md. & Pa. R. R.)—		
Cardiff	40	
Pylesville	250	
Highland	100	
The Rocks	430	
Fern Cliff	50	
Sharon	160	
Forest Hill	50	
Bynum	150	
Bel-Air	285	
Watervale	175	
Fallston	590	
Laurel Brook	75	
Baldwin	495	
Hyde	485	
Long Green	380	
Glenarm	65	
Notchcliff	85	
Summerfield	100	
Loch Raven	75	
Towson	175	
		4215
President Street Station—		
Perryman's	875	
Magnolia	235	
Edgewood	210	
		1320

Summary.	Gallons.
Calvert Station	7,550
Fulton Station	5,765
North Avenue Station	4,215
Hillen Station	3,810
Camden Station	1,680
President Street Station	1,320
	24,340

TABLE No. 5.

CITY WATER SUPPLY.

1893.	Volatile Solids.	Mineral Solids.	Total Solids	Chlorine.	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.	Required Oxygen.	Hardness.
January	38	26	64	3.20	0.032	0.064	0.55	0.001	1.02	52.82
	46	46	92	3.20	0.110	0.160	0.55	trace	0 95	45.85
	48	24	72	3.00	0.120	0.190	0.60	"	0.89	47.610
	30	34	64	3.50	0.096	0.228	0.60	0.002	0.67	42.24
February	26	44	70	3.50	0.060	0.120	0.24	0.000	1.05	45.18
	42	64	106	4.50	0.064	0.112	0.64	0.001	1.48	66.37
	26	44	70	3.30	0.112	0.256	0 62	0.002	0.75	44.95
	38	36	74	3.60	0.056	0.112	0.57	0 001	1.57	42.45
March	34	30	64	3.50	0.048	0.096	0.64	0.002	0.80	39.47
	38	34	74	3.10	0.038	0.081	0.66	0.001	0.91	46.24
	38	38	76	3.25	0.040	0.098	0.53	0.001	1.05	47.14
	40	49	89	3.50	0.045	0.100	0.43	0.001	0.96	50.00
April	46	31	77	3.45	0.045	0.095	0.38	0.001	1.08	48.10
	39	42	81	3 40	0.039	0.104	0.50	0.001	1.20	51.50
	35	35	70	3.85	0.041	0.111	0.62	0.002	1.00	48.20
	40	53	93	3 60	0.038	0.098	0 47	0.001	1.22	46.30
May	38	40	78	4.00	0.040	0.090	0.54	0.002	1.05	45.45
	31	51	82	3.65	0.038	0.050	0.37	trace	1.08	42.20
	29	63	92	3.50	0.037	0.090	0.46	"	1.14	44.15
	30	51	81	3.71	0.045	0.090	0.33	0.001	1.20	47.26
June	38	72	110	3.80	0.044	0.116	0.50	0'001	1.35	47.30
	40	58	98	3.65	0 050	0.109	0.63	0.002	1.42	46.15
	40	76	116	4.16	0.040	0.120	0.77	0.002	1.53	48.03
	40	60	100	3.92	0.040	0.123	0.66	0.001	1.44	47.00

TABLE No. 5.—Continued.

CITY WATER SUPPLY.

1893.	Volatile Solids.	Mineral Solids.	Total Solids	Chlorine	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.	Required Oxygen.	Hardness.
July	35	57	92	3.55	0.050	0 138	0.70	0.002	1.49	47.14
	41	51	92	3.68	0.053	0.125	0.48	0.001	1.38	50.05
	45	49	94	3.28	0.050	0.122	0.59	0.001	1.40	46 46
	58	51	109	4.07	0.055	0.131	0.70	0.002	1.33	45.00
August	60	50	110	3.85	0.047	0.140	0.77	0.002	1.55	46.10
	50	50	100	4.00	0.050	0.138	0.84	0 002	1.19	46.40
	38	47	85	3.39	0.036	0.091	0.57	0.001	1 28	47.22
	42	78	120	4.10	0 045	0.140	0.83	0.002	1.44	45.00
September	42	36	78	3.95	0.040	0.160	0.36	0.001	2.14	36.00
	39	73	112	4.68	0.030	0.044	0.73	0.002	2 07	39.20
October	20	82	102	4.10	0.030	0.150	1.05	0.002	2.16	40.40
	41	57	98	4 62	0.040	0.140	0.95	0.003	2 32	41.10
November	18	46	64	4.00	0.020	0.160	0.31	0.003	1.90	49.39
	20	50	70	3.85	0.020	0 090	0.52	0.002	1.66	47 50
December	35	38	73	3.42	0.025	0.104	0.88	0.001	1.77	48.48
	51	41	92	3.35	0.022	0.108	0.53	0.001	1.90	48.95

TABLE No. 6.

PUMPS, WELLS, SPRINGS, ETC.

1903.	Volatile Solids.	Mineral Solids.	Total Solids.	Chlorine.	Free Ammonia.	Albuminoid Ammonia.	Nitrites.	Condition.
Pump, Deaconess Home, 2500 W. North avenue	171	127	298	20.16	0.02	0.06	0.003	Polluted.
Pump, 112 Montebello avenue	206	195	401	108.50	0 05	0.19	0.004	"
Spring, Free Summer Excursion Society, Chesterwood	150	324	474	213.0	0.06	0.09	0.002	"
Spring, Harlem avenue ext	60	14	74	4.95	0.00	0.00	0.000	Good.
Well, House of Refuge	70	70	140	10.16	0.03	0.28	0.006	Polluted.
Pump, Chesterwood	190	156	346	32.05	0.18	0.34	0.005	"
Pump, Grill's Dairy Farm	146	58	204	45.40	0.11	0.16	0.009	"
Pump, 226 Old York road	116	250	366	116.0	0 16	0.22	0.004	"
Well, T. W. Staum's place, Frederick road	104	59	163	17.0	0.25	0.30	0.006	"
Well, St. Joseph's House of Industry	89	80	169	65.5	0 09	0.31	0.002	"
Pump, 848 First avenue	141	193	334	13.5	0 18	0.29	0.005	"
Towson run	149	67	216	4.07	0.19	0.27	0.005	"
Well, 162 Old York road	110	91	201	60.5	0.05	0.21	0.010	"
New well, Chesterwood	30	30	60	20.06	0.04	0.02	0.000	Good.
Pump, Gilmor lane, near York road	90	72	162	20.16	0 08	0.22	0.006	Polluted.
Stream, near Green Spring avenue	30	28	58	9.10	0.03	0.06	0.000	Good.
Pump, 23 Bartlett avenue	160	94	254	67.50	0.19	0.26	0.016	Polluted.
Pump, Park Heights avenue	90	62	152	15.90	0.14	0.31	0.009	"
Pump, Pimlico road	50	306	356	17.00	0.04	0.05	0.002	"
Well No. 1, Curtis Bay	10	26	36	4.86	0.03	0.06	0.000	Good.
Well No. 2, Curtis Bay	00	46	46	4.05	0.00	0.00	0.000	Very good
Spring, Braddish avenue	41	38	79	14.00	0.00	0.26	0.001	Polluted.
Pump, 231 Hickory avenue	149	98	247	97.50	0.08	0.14	0.004	"

Report of the Division of Plumbing and Drainage.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: I have the honor to submit my report of the work of the Division of Plumbing and Drainage for the year ended December 31, 1903:

Number of permits for plumbing	1,305
" of permits to drain closets	774
" of inspections of plumbing	717
" of sanitary inspections	554
" of applications from City Engineer's office approved	720
" of notices to abate nuisances	156

Respectfully submitted,

JOSEPH C. MITCHELL,
Superintendent.

Report of Throat Inspector.

BALTIMORE, MD., January 1, 1904.

JAMES BOSLEY, M.D.,

Commissioner of Health of Baltimore City.

SIR: I herewith submit a report of the work done in that division of your department under my charge for the year ending December 31, 1903.

All cases of diphtheria occurring in Baltimore city are required by law to be reported to the Health Department. When such a case is reported the premises are immediately placarded "Diphtheria," which placard remains on the house until the patient or patients are declared convalescent by the attending physician, and the throat cultures taken from all the inmates of the infected house are declared by this department to be free from the presence of diphtheria bacilli. In case the patient dies, negative cultures must be secured from all the other inmates of the house before the premises are declared free from infection, the placard removed and the premises disinfected. All inmates of a house placarded "Diphtheria" are supposed to be under quarantine. The children cannot attend public or Sunday-schools, and adults are expected to mingle with the public only so much as is absolutely necessary for their livelihood.

These throat cultures from convalescent diphtheria patients for fumigation may be taken by the physician in charge of the case, or, upon request, this department will perform this duty.

Last year in all 874 cultures were taken by attending physicians as compared to 3,775 taken by me as Throat Inspector.

The following tables show the number of cultures taken each month and the results of same.

Table No. 1 shows the cultures taken by attending physicians.

Table No. 2 shows the cultures taken by this department.

TABLE No. 1.

CULTURES TAKEN BY PHYSICIANS.

	Positive.	Negative.	Total.
January	18	37	55
February	15	60	75
March	13	31	44
April	29	90	119
May	21	53	74
June	3	21	24
July	7	31	38
August	6	29	35
September	15	51	66
October	28	104	132
November	15	87	102
December	27	83	110
Total	197	677	874

TABLE No. 2.

CULTURES TAKEN BY THROAT INSPECTOR FOR 1903.

	Negative.	Positive.	Total.	Houses Visited.
January	194	3	197	82
February	195	17	212	84
March	166	19	185	64
April	216	2	218	87
May	212	6	218	90
June	112	5	117	50
July	246	17	263	63
August	289	10	299	85
September	433	44	477	83
October	553	19	572	162
November	493	8	501	153
December	492	24	516	149
Total	3601	174	3775	1152

TABLE No. 3.

COMBINED TABLE, SHOWING TOTAL NUMBER OF CULTURES TAKEN DURING 1903 FOR FUMIGATION.

	Negative.	Positive.	Total.
Taken by physicians	677	197	874
Taken by Throat Inspector	3601	174	3775
Total	4278	371	4649

The striking difference in the percentage of positive cultures taken by the attending physicians over those taken by this department is due to the fact that in a large majority of cases the attending physician takes a culture *only* from the throat of the patient, with the request that if that culture is found free from diphtheria bacilli, the department is requested to take the other cultures.

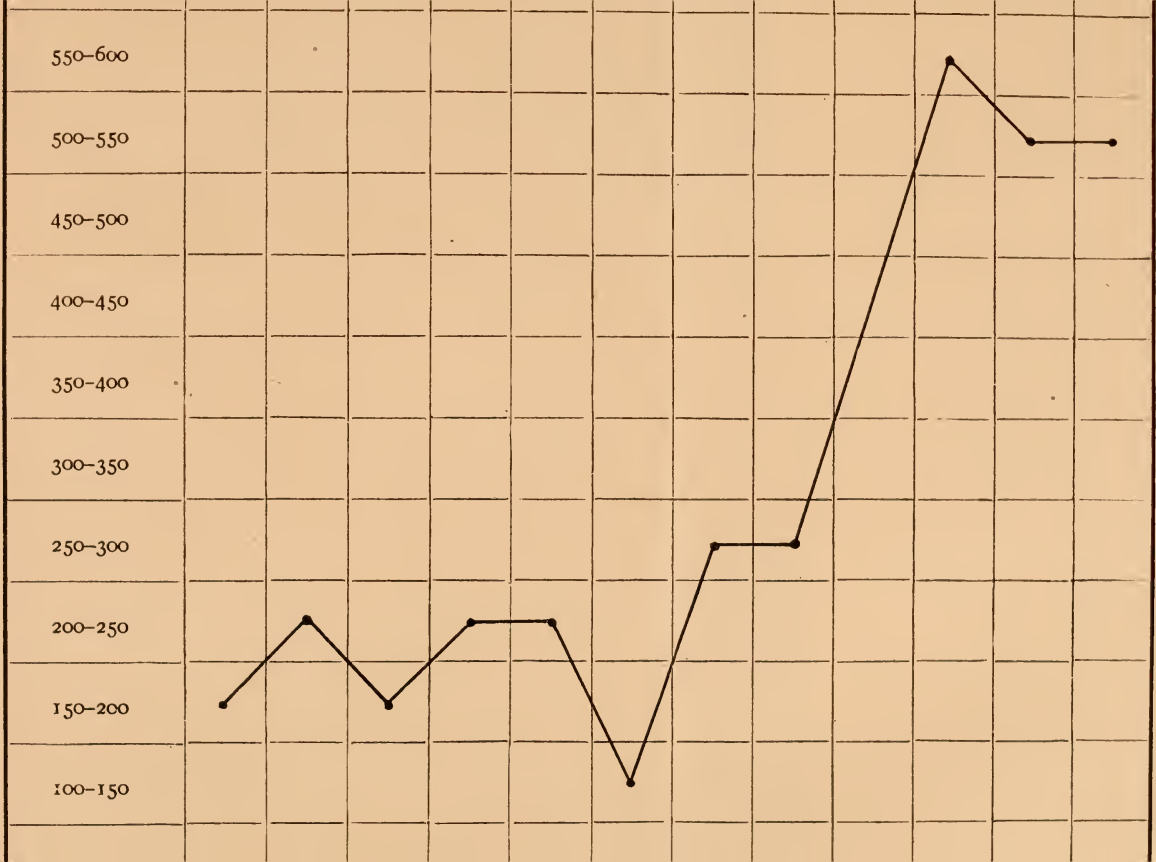
So in a large majority of the cases this department only takes cultures after the patient's throat is free from infection. Hence the much smaller per cent. of the positive cultures.

The following table shows the work of this year as compared to that of 1902:

	1902.	1903.
Number of cultures taken	1905	4649
" " positive	97	371
" " negative	1808	4278
" houses visited	782	1152
" positive cultures without showing clinical diphtheria	36	175

This shows about two and one-half times as many cultures taken in 1903 as in 1902, or the enormous net increase over last year of nearly 150 per cent.

It is a recognized fact that diphtheria is more prevalent during the autumn and winter months, and my experience of last year entirely bears this out, as the following chart will show. The largest number of cultures were taken during October, November and December, while the smallest number were taken during the summer months. The public schools opening in September is undoubtedly one of the main factors in bringing about this relation:


550–600
500–550
450–500
400–450
350–400
300–350
250–300
200–250
150–200
100–150

When negative cultures are secured from all the inmates of a house infected with diphtheria, the infected room or rooms are disinfected by means of formaldehyde gas, and in order to render this disinfection more secure, test cultures are placed in these rooms and returned to the Health Department by mail after fumigation.

If these test cultures show that all the germs have been destroyed, the disinfection is considered effective; if, however, these test cultures are found to contain germs, the fumigator repeats his work until a negative culture is obtained. I think the small percentage of houses reinfected, i. e., a second case occurring after fumigation, will show that the disinfections are, as a rule, effective.

As a comparison I have also included scarlet fever reinfections in the following table:

	Scarlet Fever.	Diptheria.
Number of disinfections for 1903	957	1168
Number of reinfections	18	34
Percentage of reinfections	1.8	2.9
Number of control cultures positive in reinfections	1	6
Number of control cultures negative in reinfections	14	23
Number of control cultures missing or empty in reinfections.	3	5

In these cases in the above table where the first control culture was positive (six in diphtheria and one in scarlet fever) we can possibly account for a reinfection. In five of the diphtheria cases of reinfection and in three of the scarlet fever cases where the control cultures were either not sent back to this department, or were sent back empty, again might account for the reinfection on the supposition that the cultures might have been positive had we been able to examine them. The remainder of the reinfections are more difficult to account for.

Of these twenty-six diphtheria reinfections, six occurred within one week after disinfection, nine within two weeks, five within one month, one within three months, and two within six months.

I think that the reinfections occurring three months after disinfections may possibly bear no relation to the primary case. This we cannot say positively, as Osler reports a case where virulent diphtheria bacilli were found on a child's play toys five months after an attack of diphtheria, and experimently live diphtheria bacilli have been kept on a piece of silk thread for one hundred and seventy-two days.

The cases of reinfection occurring anywhere under one month from time room was disinfected, certainly appear to be dependent on the original infection. We can readily see how this may happen even with the most thorough fumigation. Bits of membrane may be coughed up, deposited on nurses' clothing, and (unless she confine herself strictly in infected room) be accidentally wiped off on some furniture in another part of the house. Here we have another source of contagion.

Again: I have often seen a convalescing patient with a throat full of virulent bacilli, allowed the liberty of the house, where he may deposit live diphtheria bacilli from cellar to garret. As it is impossible to disinfect the entire house, we should not be surprised to see another case develop here within a short time. Neither can we compel the patient to stay in one room until we declare his throat free from infection; we can only quarantine the house as a whole.

So taking into consideration these unavoidable obstacles to an ideal disinfection, I think the small amount of 2.9 per cent. of reinfections in diphtheria and 1.8 per cent. reinfections in scarlet fever, are no more than we should reasonably expect, and will I am sure compare most favorably to the reinfections from these two diseases in other cities.

Of the scarlet fever reinfections we have a somewhat different picture, the time before reinfections being longer than in diphtheria. Of the fourteen scarlet fever reinfections show-

ing negative cultures, one occurred within one week, one within two weeks, seven within one month, four within three months, and one within six months. We see the length of time before infections to be greater here than in diphtheria, and this should not surprise us for several reasons: First, the period of incubation is as a rule longer in scarlet fever than in diphtheria. Second, we have the more important point of the period of infection. This we know is on the average about six weeks, yet where we have an otitis, rhinitis, suppurating glands, etc., complicating or succeeding the primary case, the infective period may be much more prolonged. Hence we find over seventy-eight of these reinfections occurring in from one to three months after the primary case. In fact there is just ground for the supposition that in the reinfection occurring in one week after fumigation, the patient was exposed to the same source of contagion as was the primary case.

Last September one of the children at the Fresh Air Lodge, situated near Belair, Md., was brought to Baltimore complaining of a sore throat. Upon examination it was discovered she was suffering with diphtheria. I immediately went to the Lodge (as per your request) and made cultures of all the inmates. Fifty-one cultures were taken in all, seven of which contained diphtheria bacilli. On the next day (September 4th) I returned to the Lodge and injected antitoxin. All the children who showed a positive culture received 2,000 units with one exception. One child who had developed a slight membrane received 3,000 units. All other inmates received 1,000 units each. All of these children were isolated, the Lodge put under quarantine and an antiseptic gargle prescribed. On September 9 I made a third trip. All the inmates were again examined. No membrane or other suspicious sign or symptoms were observed. The temperatures were all normal. The isolation of the children showing a positive culture were continued, and I found all other prophylactic measures being

rigidly observed. No further trouble was met with, and after securing negative cultures from all the throats the quarantine was lifted on September 14, and the children allowed to return to Baltimore.

I could only find one possible source of infection traceable which might have occurred at the camp. This was either through the milk supply or by direct contact with the milkman, who supplied the camp with milk. This man had been brought in contact with a case of diphtheria in Belair, and I secured a positive culture from his throat. Whether there was any connection between these two cases it is impossible to say, but the circumstances were, to say the least, very suspicious. I think these prompt measures not only prevented a spread of diphtheria at the camp, but in Baltimore, as would in all probability have been the case had these seven children with a positive culture been allowed to return to this city and roam at large.

In conclusion I think the above report shows—

(1) The enormous increase in the work of Throat Inspection.

(2) The immense importance of Throat Inspection.

(3) The importance of thorough disinfection.

(4) That our disinfections are as a rule effective as shown by the small per cent. of reinfections.

(5) That although the identity of the scarlet fever organisms has not been definitely settled (though Mallory has almost proven it to be a protozoon), it would seem to be even less resistant to formaldehyde than the diphtheria bacillus, as is shown by a smaller percentage of reinfections.

Respectfully submitted,

WILBUR P. STUBBS, M.D.,
Inspector of Throats.

Report of Inspectors of Food.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: We have the honor to report that during the year ended December 31, 1903, we made the following inspections of and condemnations of food :

MONTHS.	Stores Inspected.	Markets Inspected.	Slaughter-Houses Inspected.	Abattoirs Inspected	Fruits and Vegetables Condemned, Pounds.	Meats and Poultry Condemned, Pounds.
January	942	127	21	113	2,850	3,518
February	928	123	35	44	2,450	9,449
March	933	127	23	41	4,200	4,260
April	918	123	26	45	2,650	14,357
May	931	130	18	44	3,150	6,430
June	893	132	39	66	4,380	12,961
July	891	131	18	66	5,500	14,205
August	853	129	14	91	13,750	6,630
September	940	133	18	55	12,690	6,021
October	930	127	15	54	3,950	3,130
November	943	124	14	52	1,500	6,500
December	854	136	12	52	.....	8,895
Total	10,959	1,542	253	723	57,070	94,356

Respectfully submitted,

CHARLES KNELL.
GEORGE J. FISCHER,
E. C. COOPER,
Inspectors.

Report of the Nuisance Clerk.

BALTIMORE, December 31, 1903.

JAMES BOSLEY, M. D.,

Commissioner of Health.

DEAR SIR—Please find report of work done in this department for the year 1903:

MONTHS.	Permits to Clean Privies.	Number of Loads to Winans' Dump.
January	1,688	2,677
February	1,780	2,637
March	7,643	8,958
April	5,686	9,260
May	4,759	7,676
June	5,008	7,299
July	5,019	7,304
August	4,232	6,817
September	3,371	4,946
October	2,475	3,630
November	1,933	2,983
December	1,692	2,152
Total	45,286	67,339

There has been only one dump for the reception of night soil since March 1, 1902, at which time the Foley Wharf dump was closed.

Respectfully,

F. H. JENKINS,

Nuisance Clerk.

Report of the Inspector of Bakeries.

BALTIMORE, January 1, 1904.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: I have the honor to submit the following report of inspection of bakeries during the year ended December 31, 1903:

MONTHS.	Inspected	Ordered Cleaned.
January	281	7
February	238	.....
March	270	2
April	249	.....
May	233	2
June	242	17
July	274	12
August	250	7
September	260	.....
October	281	6
November	238	4
December	220	4
Total	3,036	61

Respectfully submitted,

R. L. WEBER,
Inspector of Bakeries.

Report of the Keeper of the Morgue.

BALTIMORE, January 1, 1904.

To the Commissioner of Health.

Report for the year 1903 of the City Morgue:

Number of bodies received		272
Males	208	
Females	62	
Whites	137	
Blacks	135	

Ages from 1 day to 1 month	5
1 month to 1 year	15
1 year to 10 years	6
11 " " 20 "	14
21 " " 30 "	44
31 " " 40 "	55
41 " " 50 "	48
51 " " 60 "	37
61 " " 70 "	25
71 " " 80 "	2

CAUSES OF DEATH.

Dysentery	1	Drowned	33
Septicæmia	2	Gunshot wound	5
Fractured skull	12	Heart disease	22
Asthenia	5	Hemorrhage	7
Congestion of lungs	4	Asphyxia	3
Burns	3	Pneumonia	7
Bright's disease	4	Typhoid fever	5
Senile decay	1	Peritonitis	8
Suicide	9	Exhaustion	4
Acute enteritis	1	Asthma	3
Heart trouble	2	Alcoholism	2
Nephritis	13	Acute gastritis	1
Heart failure	10	Scrofula	1
Rheumatism	1	Meningitis	3
Apoplexy	8	Heat prostration	2
Accident	24	Sepsis	1
Cardia failure	7	Cholera infantum	1
Exposure	1	Marasmus	3
Oval of heart	1	Convulsions	1
Tuberculosis	21	Electrocuted	1
Suffocation	3	Paralysis	2
Strangulation	1	Rupture	1
Inanition	4	Still-births	14

Bodies buried by friends	148
Bodies buried by city	122
Bodies now at the Morgue	3
Post-mortems held by Dr. N. G. Keirle	32

PATRICK R. GLYNN,
Superintendent.

Report of Commissioner's Clerk.

BALTIMORE, January 1, 1904.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: I have the honor to submit herewith an account of the work done by me during the year ended December 31, 1903.

Number of letters sent out	3,164
Number of notices sent to physicians	4,790
Number of notices sent to undertakers	189
Number of notices sent to hospitals	340
Number of notices sent to hotels	212
Number of notices sent to public schools	10,000
Number of notices sent to parochial schools	4,800
Number of notices sent to private schools	800
Number of notices sent to Sunday-schools	12,000
Number of notices sent to dispensaries	3,000
Number of notices sent to factories	1,200
Number of notices sent to banks and business houses	1,500
Number of monthly reports	5,400
	47,395
Number of culture tubes delivered to city stations	9,340

Respectfully submitted,

ELEAZER GOLDBERG,
Commissioner's Clerk.

Report of Inspector of Cow Stables.

BALTIMORE, January 1, 1904.

JAMES BOSLEY, M. D.,
Commissioner of Health.

DEAR SIR: I beg to submit my report of inspections of cow stables during the year ended December 31, 1903. At the beginning of the year there were 287 stables used for housing cows for dairy purposes and for private use in the city. During the year twenty-three dairymen disposed of their cows and retired from the business, leaving 264 stables at the close of the year. There are twelve dealers in milch cows in the city. I am pleased to report that there seems to be a general disposition on the part of dairymen to comply with the regulations of the department, but I was compelled to cause the arrest of two men for their refusal to comply with the law, both of whom were fined. Eight cows were condemned and removed from the city. During the year I collected thirty samples of milk and eight samples of water used for stock for analysis.

The following tables show in detail the inspections by months:

MONTHS.	Stables. Inspected.	Stables Ordered Cleaned.	Number of Cows Inspected.
January	365	4	1,596
February	380	1	1,608
March	304	2	1,552
April	294	1	1,471
May	264	2	1,392
June	284	2	1,480
July	291	1	1,537
August	294	3	1,596
September	283	2	1,582
October	267	3	1,490
November	203	2	1,030
December	264	1	1,142.
Total	3,493	24	17,476

Respectfully submitted,
GEORGE F. SCHULTZ,
Inspector.

Report of the Index Clerk.

Report of the Division of Fumigation and the Division Having Charge of the Burial of the Pauper Dead.

BALTIMORE, January 1, 1904.

JAMES BOSLEY, M.D.,
Commissioner of Health.

DEAR SIR: I herewith most respectfully submit a report of the division in my charge, including a table of fumigations and their results, together with a detailed report of the pauper dead and the disposition of the same. There is a complete record in this division covering all possible ascertainable facts in each and every case. The tables show where the bodies came from and the disposition of the same.

FUMIGATIONS CLASSIFIED BY DISEASES—YEARS COMPARED.

	1902.	1903.
Bright's Disease	1	1
Bronchitis	.....	1
Cancer	5	9
Chicken-pox	3	.....
Diphtheria	816	1,182
Erysipelas	2	11
Gangrene	1	.....
Lupus	.....	1
Lockjaw	1	1
La Grippe	.....	2
Measles	12	18
Pneumonia	2	1
Scarlet fever	422	980
Small-pox	14	30
Septicæmia	2	3
Septic Infection	.....	2
Tuberculosis	76	137
Typhoid Fever	15	15
Tonsilitis	.....	1
Unknown	5	6
Whooping Cough	1	.....
Total	1,378	2,401

RESULTS OF FUMIGATION—YEARS COMPARED.

	1902.	1903.
Negative	1,018	1,733
Positive	224	366
Unreturned tubes	132	238
Returned empty	4	64
Total	1,378	2,401

Statement of dead bodies turned over to the Anatomical Board by the Commissioner of Health, under Act of the General Assembly of Maryland, Chapter 163, 1882, to be used only to promote medical science in the State of Maryland and the medical schools of Baltimore City, January 1, to December 31, 1903, inclusive.

	1902.	1903.
Adults	301	249
Between 1 and 5 years	22	13
Under 1 year.	249	240
Still births	172	218
Total	744	720
Males,	454	437
Females..	283	261
Unknown sex	7	22
Total	744	720
Whites	229	229
Blacks	510	476
Unknown	5	15
Total	744	720

The bodies were received from the following hospitals and institutions:

	1902.	1903.
Bayview	97	99
Baltimore City Hospital	33	28
Baltimore City Jail	3	.....
Canton Police Station	1	.....
Central Police Station	.....	3
Ellicott City	2	.....
Garrett Hospital	3	1
Good Samaritan	.....	5
Homœpathic Hospital	8	8
Home of Mothers and Infants	2	.....
Hebrew Hospital	1	.....
Johns Hopkins Hospital	54	36
Franklin Square Hospital	1	.....
622 W. Lombard Street	.....	39
115 W. Lombard Street	11	16
817 Linden Avenue	.....	22
Maryland General Hospital	41	16
Marine Hospital	.....	1
Mt. Wilson, Md	4	4
Miscellaneous (private houses)	*268	250
Nursery and Child's Hospital	30	35
Morgue	12	44
Northeastern Police Station	2	2
Northwestern Police Station	7	9
Northern Police Station	3	1
Penitentiary	13	3
Provident Hospital	1	.....
Southern Police Station	5	3
Southwestern Police Station	1	2
St. Agnes' Hospital	6	3
St. Elizabeth's Home	87	60
St. Joseph's Hospital	14	12
Little Sisters of the Poor	.....	1
University Hospital	20	15
Union Protestant Infirmary	1	.....
Western Police Station	2	2
West End Maternite Hospital	1	.....
Total	744	720

Disposition.	1902.	1903.
Baltimore Medical College	52	146
Baltimore University College	14	.....
College Physicians and Surgeons	316	271
Homœpathic College	3	5
Hebrew College	1	.....
Johns Hopkins Medical College	286	186
Maryland Medical College	19	9
1113 Madison avenue	1	.....
University of Maryland	50	99
University School of Medicine	.....	1
Woman's College	2	3
Total	744	720

Total Number of Dead Bodies Handled by Health Department.

	1902.	1903.
Buried in Potter's field	21	12
Surrendered to friends for burial	180	169
Transferred to anatomy board	728	709
Total	929	890

Respectfully submitted,

Geo. C. Wedderburn,
Index Clerk.

Report of the Registrar's Clerk and Index Clerk.

BALTIMORE, MD., January 1, 1904.

JAMES BOSLEY, M.D.,
Commissioner of Health:

We have the honor to submit the report of the work done by the Registrar's Clerk and Index Clerk during the year ended December 31, 1903:

Deaths recorded, 28,916.

Deaths indexed, 10,141.

Births indexed, 7,000.

Transcripts issued, 452.

Amount paid to the City Comptroller, $226.

The record of deaths are recorded and indexed to date.

The record of births are only indexed up to and part of the year 1883; therefore, the indexing is back for the past twenty years and the recording for the past four years.

Yours respectfully,

JOHN H. UHLENBERG,
Registrar's Clerk.

C. A. WALL, JR.,
Index Clerk.

Report of the Burial Permit Clerk.

BALTIMORE, January 1, 1904.

JAMES BOSLEY, M.D.,

Commissioner of Health.

DEAR SIR: I hereby respectfully submit the report of the work done by the Burial Permit Clerk for the year ended December 31, 1903.

The following table exhibits a summary of the various kinds of permits issued during the year:

MONTHS.	Burial Permits, City.	Burial Permits, Transit.	Burial Permits, Still Births.	Burial Permits, Shipping.	Burial Permits, Disinter.	Removal Permits.	Total.
January	1,030	89	61	99	14	275	1,568
February	862	68	58	93	14	230	1,325
March	902	79	60	96	18	241	1,396
April	805	61	50	96	65	219	1,296
May	753	84	68	80	58	216	1,259
June	707	81	70	80	33	211	1,182
July	1,097	83	68	104	15	288	1,655
August	860	79	65	100	26	218	1,348
September	707	69	63	90	25	193	1,147
October	776	73	57	105	32	208	1,251
November	756	77	61	91	32	199	1,216
December	886	99	74	114	45	253	1,471
Total	10,141	942	755	1,148	377	2,751	16,114

During the year there were received from cemeteries and transportation companies 13,363 burial, disinter and shipping permits, which have been affixed to the certificates of death and applications for burial, and the same have been filed for record.

Respectfully submitted,

HARRY C. ANDREWS,

Burial Permit Clerk.

REPORT

—OF THE—

CITY SOLICITOR

—TO THE—

MAYOR AND CITY COUNCIL OF BALTIMORE

—FOR THE—

YEAR ENDING JULY 1, 1904

BALTIMORE, MD.
WM. J. C. DULANY COMPANY,
CITY PRINTERS.

1904.

REPORT.

BALTIMORE, July 1, 1904.

HON. E. CLAY TIMANUS,

Mayor of the City of Baltimore.

DEAR SIR:

When I entered upon the duties of my office on July 1, 1903, there were pending against the city, in the various courts, local, State and Federal, 183 cases, of which number two were awaiting argument in the Supreme Court of the United States, viz.: Cory vs. Mayor and City Council of Baltimore, and The Baltimore Shipbuilding and Dry Dock Company vs. the Mayor and City Council of Baltimore. Both of these cases were taken up to the Supreme Court on writs of error from the Court of Appeals of Maryland, and have not yet been reached for argument.

The Cory case raises the question as to the legality of the taxation by the City of Baltimore of shares of stock in a Maryland corporation, owned by a non-resident of the State. The city won this case in the Circuit Court of Baltimore City and in the Court of Appeals.

The Baltimore Shipbuilding and Dry Dock Company case involves the validity of the taxation of a shipbuilding plant located on land which had been granted to the United States as part of Fort McHenry, and which had been subsequently ceded by the Government to the predecessor in title of The Baltimore Shipbuilding and Dry Dock Company, upon the condition that, if at any time the grantee should fail to maintain a dry dock upon the land, in which vessels of the United States could be docked, free of charge, the title to the property should revert to the United States. The Dry Dock Company contended that

the land belonged to the United States, and, therefore, was not subject to taxation; but both the lower Court and the Court of Appeals held that the interest which the United States had conveyed to its original grantee was property, and as such property, owned by a private corporation, was subject to taxation in the same manner as other property.

There were also pending two cases in the Court of Appeals:

One, the case of the Baltimore & Ohio Railroad Company vs. the Mayor and City Council of Baltimore, was an appeal from an award of damages to the Railroad Company in the opening of Scott street across the right of way of that Company. The Railroad Company claimed, in addition to the usual damages awarded by the Commissioners for Opening Streets, reimbursement for certain changes which it was compelled to make in its tracks, and also claimed such sum as it would be compelled to expend to maintain the crossing in proper repair. These claims of the Railroad Company were not allowed by the lower Court; but the action of the trial Court in this respect was reversed by the Court of Appeals, and a new trial awarded to the plaintiff. The case is still pending.

The other case was that of Smith and Ford vs. the Mayor and City Council of Baltimore et al. Smith and Ford, as taxpayers, filed a bill in the Circuit Court No. 2, alleging fraud in the manner in which Robert J. McCuen, Superintendent of Lamps and Lighting, conducted certain tests which were the basis of an award of a contract to the American Lighting Company. In the trial in the lower Court, at the close of the plaintiff's testimony, Judge Harlan held that the plaintiffs had produced no evidence tending to prove fraud upon the part of Mr. McCuen, or any other city official, and signed a decree dismissing the bill, with costs to the defendants. The plaintiffs appealed to the Court of Appeals, and that Court affirmed the decision of the lower Court.

A third case was tried in the Court of Appeals at the September Term, 1903; but it was not an inheritance from my

predecessor, having been instituted after the beginning of my term of office, and was argued by myself both in the lower Court and in the Court of Appeals. This was the case of J. Hurst Purnell vs. Robert M. McLane, Mayor, and others, constituting the Electrical Commission of Baltimore City. Purnell applied to the Electrical Commission for a lease of space in the city subways. The Commission, under my advice, refused his application, on the ground that he was obliged to first obtain a franchise to use the streets of the city from the Mayor and City Council of Baltimore before he could lawfully apply for subway space to the Commission. Purnell thereupon filed a petition for a mandamus in the Court of Common Pleas to compel the Commission to execute a conduit lease to him. To this petition the defendants demurred, and the Court sustained the demurrer and dismissed the petition. Upon appeal by the petitioner to the Court of Appeals, this action was affirmed.

About the end of Mayor Hayes' administration, the city, acting through a Commission composed of the Mayor, Comptroller and Water Engineer, entered into a contract with Frank H. Callaway for the purchase of a site for a reservoir, at the price of $2,000 per acre. The contract provided that the city should not be bound to take any portion of the land agreed to be purchased, if it could not secure the entire tract. The tract consisted of three parcels, owned, respectively, by the Vickers estate, the North Avenue Land Company, and the Slingluff estate; the larger part being a portion of the Slingluff estate.

Mr. Callaway, in making the sale, was acting as agent for the Vickers estate and the North Avenue Land Company; but had secured an option, in his own name, from the Slingluff estate of the portion of the tract belonging to that estate at the sum of $700 per acre.

The Commission, by which the contract was entered into, was named, or attempted to be named, in an ordinance entitled "The Ordinance of Estimates for the year 1903." Upon the

question being submitted to me, as to whether such a Commission could be named in an Ordinance of Estimates merely, I rendered an opinion in the negative, and followed it up by filing exceptions in the Circuit Court of Baltimore City, on behalf of the city, to the ratification of the sale by the Vickers estate. Shortly afterwards, certain creditors of certain of the *cestui que* trusts interested in the Slingluff estate filed exceptions in the Circuit Court of Baltimore City to the ratification of the sale by that estate to Mr. Callaway. The Court sustained these last exceptions, and an appeal was prayed to the Court of Appeals.

During the pendency of the exceptions last mentioned in the lower Court, an ordinance was introduced and passed by the City Council repealing the item in the Ordinance of Estimates for the year 1903, by which the Commission was named. In the month of December, 1903, immediately after the passage of this repealing ordinance, and before an appeal had been prayed to the Court of Appeals from the order sustaining the exceptions to the ratification of the sale by the Slingluff estate to Mr. Callaway, Mr. Callaway and others filed a bill for an injunction in the Circuit Court of Baltimore City against the city, asking that the city be enjoined from taking any action under the repealing ordinance, and that the ordinance be declared null and void.

The Court refused to allow the injunction, and dismissed the bill; whereupon an appeal was taken. The Court of Appeals sustained the action of the lower Court, holding that the order in the Slingluff case, sustaining the exceptions to the sale to Callaway, being unreversed, the Court of Appeals would not go behind it. Since this decision, the order setting aside the sale to Mr. Callaway has been affirmed by the Court of Appeals, and this result is believed to be the end of the whole controversy, so far as the city is concerned.

By Chapter 597 of the Acts of 1900, it was provided that shares of stock in all Allegany County corporations should be

subject to assessment and taxation in Allegany County, irrespective of the residence of the owners of the stock. This Act materially affected the revenues of the city, and a test case was instituted in Allegany County for the purpose of obtaining a decision as to the validity of the Act. The case was argued before the Circuit Court of Allegany County, sitting in equity, the city contending that the Act was unconstitutional and void. The Act was upheld by the lower Court; but, on appeal to the Court of Appeals by the city, the decision of the lower Court was reversed, and the Act declared to be unconstitutional and void.

An important case which did not reach the Court of Appeals was that of Walter L. Denny vs. Mayor and City Council of Baltimore, in the Circuit Court No. 2. In the spring of 1903, the City Council undertook to pass over the Mayor's veto four ordinances providing for the repaving of certain streets with improved paving material. Mr. Denny, as a taxpayer, filed a bill asking that the ordinances be declared null and void; because, among other reasons, the written objections of Mayor Hayes to the ordinances were not before the Second Branch of the City Council when it proceeded to reconsider the ordinances, and attempted to pass them over the Mayor's veto. After careful reflection, I decided that the bill was well-grounded, and a decree was signed by the Court, with the assent of the parties, declaring the ordinances invalid and of no effect, and perpetually restraining the city from taking any action under them.

The following judgments have been obtained against the city since July 1, 1903, in actions for personal injuries:

William Walker vs. Mayor and City Council of Baltimore, in the Baltimore City Court. This case was instituted by a colored boy to recover damages for very severe injuries sustained by him in falling over a city water stop box on St. Paul street, between Saratoga and Pleasant streets. The jury brought in a verdict for $1,000, and an appeal was taken; but the judgment was affirmed by the Court of Appeals.

Mary T. McMahon vs. Mayor and City Council of Baltimore, in the Baltimore City Court. This was an action for damages for personal injuries sustained by the plaintiff by having the heel of her shoe caught in the flooring of Chase street bridge over Jones' Falls, and being violently thrown down. The flooring of the footway of the bridge had become rotten through the action of the elements, and it was proven that the city had notice of this condition. As results of the fall, Mrs. McMahon experienced a miscarriage, and also suffered permanent injury. The jury rendered a verdict against the city for $750, and, in an action brought by the husband of the plaintiff to recover for the loss of his wife's services, the husband secured a verdict for $75. As the city was clearly liable in both of these cases, it was not deemed expedient to appeal them.

From July 1, 1903, to June 1, 1904, the following cases against the city were compromised:

F. W. Baldwin vs. Mayor and City Council of Baltimore, Court of Common Pleas, amount paid, $50. Action of tort.

Elizabeth Akehurst vs. Mayor and City Council of Baltimore, Court of Common Pleas, amount paid, $650. Action of tort.

Edward A. Gehrman vs. Mayor and City Council of Baltimore, Baltimore City Court, amount paid, $60. Action of tort.

Leopold Voit et al. vs. Mayor and City Council of Baltimore, Baltimore City Court, amount paid, $80. Action of tort.

Thomas Heagenson vs. Mayor and City Council of Baltimore, Baltimore City Court, amount paid, $80. Action of tort.

Thomas Smith and wife vs. Mayor and City Council of Baltimore, Baltimore City Court, amount paid, $180. Action of tort.

Zeigler vs. Mayor and City Council of Baltimore, Court of Common Pleas, amount paid, $135. Action of tort.

Dawson vs. Mayor and City Council of Baltimore, Baltimore City Court, Magistrate's Appeal, amount paid, $25. Action of tort.

Gottfried Saurski and wife vs. Mayor and City Council of Baltimore, Baltimore City Court, amount paid, $115. Action of tort.

Mary J. Sheehan vs. Mayor and City Council of Baltimore, Court of Common Pleas, amount paid, $200. Action of tort.

John M. Russell vs. Mayor and City Council of Baltimore, Superior Court, amount paid, $950. Action of tort.

Anna B. Foreman vs. Mayor and City Council of Baltimore, Superior Court, amount paid, $250. Action of tort.

For some years previous to the adoption of the new City Charter, a large number of abstracts of titles to various parcels of land condemned, purchased or otherwise acquired by the city had been in process of accumulation in this office. To preserve the contents of these abstracts, and to render them easy of access, Mr. Frederick W. Story, when Examiner of Titles, began a series of record books, into which they might be copied.

After his term of office expired, although a great many of the abstracts remained uncopied, and the number was constantly increasing, the work was suspended for a time on account of a lack of funds. In the Ordinance of Estimates for 1903, my predecessor, ex-Gov. Wm. Pinkney Whyte, secured an appropriation for the continuance of the work, and it has been so diligently prosecuted that at this time (July 1, 1904) there are no uncopied abstracts, and the office is in a position to take care of the recording of the new abstracts as they come in.

In reorganizing the Law Department after I had become its head, one of my first objects was to inaugurate a filing system, comprehensive enough to embrace every paper in the office; simple enough to be understood, after a word of explanation, by anyone, and at the same time of such a character as to enable a member of the Department to turn to any paper in the office in a moment. Such a system, it is believed, is now in successful operation in this Department. In view of the fact that more than twelve hundred separate and distinct matters have been entered upon its indexes since July 1st last, the necessity for such a simple and convenient method of filing papers is obvious.

The City Solicitor, under the provisions of the new City Charter, was required to personally approve all contracts entered into by, and all bonds given to, the city. There is a vast and constantly increasing number of these papers, and their examination and approval consumed much of my time. The Department consisted formerly of the City Solicitor, a first, second and third Assistant Solicitor, and a clerk. The salaries of the three Assistant City Solicitors were $3,000, $2,500 and $1,800 per annum respectively. The amount available for the payment of the salary of the clerk, and for the payment of the salaries of such other clerical assistants as the Department might need, was fixed by the Charter at $2,500 per annum.

When the General Assembly of Maryland for the year 1904 convened, I prepared and had introduced a bill amending the Charter and remoulding to a considerable extent the functions of the Law Department. This bill provided for the appointment of four Assistant City Solicitors, and abolished the old graded designations of first, second and third Assistant City Solicitors. One of the Assistants to be appointed under the bill was to be known as the Deputy City Solicitor, and to receive a salary of $3,000 per annum, and the other three Assistant City Solicitors were to be known as Assistant City Solicitors merely, and were each to receive a salary of $2,500 per annum. The bill further provided that the City Solicitor should have the power to delegate the duty of examining and approving contracts and bonds to one of the Assistant City Solicitors, and should also have the power to designate one of the Assistant City Solicitors as the Examiner of Titles to have charge of the examination of titles on behalf of the city. The bill also provided for an increase in the amount allowed for the payment of the salary of the clerk and such other clerical assistants as the Department might require, from $2,500 to $3,500 per annum. It was passed, and became operative from the date of its passage.

The line of ordinal distinction between the three Assistant City Solicitors was effaced because they are called upon to render services of substantially equal responsibility and importance in the main. The additional Assistant City Solicitor was asked for: because, over and above the natural increase in the volume of the city's law business, which has been very great within the past two years, much additional work was expected to be imposed upon this Department by the several enabling Acts providing for a new sewerage system, improved pavements, new engine houses, and the extension of the park system. After the great fire in February, 1904, in view of the comprehensive plan of street and dock improvements brought about by the calamity, and the augmented amount of work imposed upon this Department by the improvements in question, the need for such an addition to my staff became all the more urgent. The increase from $2,500 to $3,500 in my salary list for clerical help was necessary to enable me to properly dispatch the routine business of the office.

I say nothing of the many legislative measures drafted by this Department during my term of office and enacted into law by the General Assembly and the City Council, since these measures have, as a rule, been fully brought to the public attention by the press.

It is believed that the duties of my office have never been so laborious, since the adoption of the new City Charter, as they have proved during my incumbency. This fact is due, in part, to the natural growth of the city in point of wealth and population, which has not been attended by a corresponding increase in the number of subordinates employed by the Department; but also, in part, to the extensive plan of municipal improvements which preceded the great fire, and which ended with it only to be succeeded by a different, but equally extensive, plan of improvements. It is also due, in some measure, I think, to the fact that, owing to the introduction of new and additional administrative machinery of one sort or another into

the office, such as more typewriting machines, more stenographers and typewriters, and improved methods of preserving and recurring to papers, the office is in some respects in a better condition than it has been heretofore to meet the demands of the different municipal departments upon it.

Respectfully yours,

W. CABELL BRUCE,
City Solicitor.

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